

Name: Yesenia Velazquez

Date: 8-17-20

1. Kaitlyn is selling tickets for a sporting event. Nine people can sit in a row in the bleachers. A group of 12 people are attending. How many full rows of nine do they need? How many people will be sitting in the row that is not full, the partial row? Write your answers in the left chart below.

2. Next Kaitlyn sells tickets to a group of 22 people. How many full rows of nine will they need? How many will sit in the partial row? Write your answers in the left chart.

3. Kaitlyn then sells tickets to a group of 28 people. How many full rows will they need? How many will sit in the partial row? Write your answers in the left chart.

4. At halftime the three groups left, returned, and sat together. What is the fewest number of rows they need now? Write your answers in the left chart.

Kaitlyn's Ticket Sales		
Number of People	Full Rows with 9 People	People in Partial Row
12	1	3
22	2	4
28	3	1
62	6	8

Kurt's Ticket Sales		
Number of People	Full Rows with 9 People	People in Partial Row
15	1	6
23	2	5
30	3	3
68	7	5

5. Kurt is also selling tickets. His first group has 15 people, the second group has 23 people, and the third group has 30 people. Find the number of full rows and the number of people sitting in partial rows per group. Write your answers in the right chart above.

6. At halftime the three groups left, returned, and sat together. What is the fewest number of rows Kurt's groups need now? Write your answers in the right chart above.

7. What do you notice in Kaitlyn's chart about the number of people sitting in the partial rows before and after the groups are combined? 2 where even and 2 where odd

8. What do you notice in Kurt's chart about the number of people sitting in the partial rows before and after the groups are combined? We had to re group kurts I mean he did a bad job

8-26-20



A million is a cube and a number it more then a thousand but less the billion. A million is 100 rows of cubes and 1000,1000 centimeter cubes that's a million.

Name: _____

Date: _____

Warm-Up

Add these numbers. Use check numbers to check your work.

$$\begin{array}{r} \overset{11}{4382} \text{ (8)} \\ + \overset{1}{5948} \text{ (8)} \\ \hline 10330 \end{array}$$

$$\begin{array}{r} \overset{11}{2374} \text{ (7)} \\ + \overset{1}{5958} \text{ (8)} \\ \hline 8332 \end{array}$$

$$\begin{array}{r} \overset{11}{2988} \text{ (4)} \\ + \overset{1}{5247} \text{ (4)} \\ \hline 8235 \end{array}$$

INFORMATION: When writing numbers with digits, put a comma between number periods.

Underline the period words in the following numbers. Then compose the number with place-value cards and write it in the rectangles. Write the number on the line using commas.

five billion four hundred thirty-one million seven hundred two thousand eight hundred sixty-nine

5,431,702,869

thirty-two billion nine hundred seventeen million five hundred eighty-four thousand six hundred

32,917,584,600

sixty billion two hundred ninety-eight million eight hundred thousand one hundred thirty-four

60,298,800,134

eleven billion twenty-nine million eight hundred fifty-five thousand seventy-three

11,029,855,073

Write these number in words:

305,162,000 Three hundred and five million one hundred and sixty-two thousand

200,064,014 Two hundred million sixty-four thousand and fourteen

Name: _____

Date: _____

Warm-Up

Fill in the tables.

	Quotient (answer)	Remainder
$49 \div 7$	7	0
$50 \div 7$	7	1
$51 \div 7$	7	2
$52 \div 7$	7	3

	Quotient (answer)	Remainder
$27 \div 6$	4	3
$28 \div 6$	4	4
$29 \div 6$	4	5
$30 \div 6$	5	0

Round the following to the hundreds place and put the number into the correct columns.

~~12,323~~ ~~12,470~~ ~~12,424~~ ~~12,567~~ ~~12,400~~
~~12,491~~ ~~12,399~~ ~~12,603~~ ~~12,599~~ ~~12,250~~
~~12,290~~ ~~12,461~~ ~~12,546~~ ~~12,287~~ ~~12,356~~

12,300	12,400	12,500	12,600
12,323	12,400	12,461	12,599
12,290	12,399	12,491	12,567
12,287	12,424	12,470	12,603
12,250	12,356	12,546	

The earth's population on October 23, 2015 was estimated to be 7,375,870,314.

What is the earth's population to the nearest million? 7,376,000,000

What is the earth's population to the nearest billion? 8,000,000,000

Round the populations to the nearest million.

Australia	23,630,169	<u>24</u> million
Canada	35,524,732	<u>36</u> million
China	1,404,643,511	<u>1,405</u> million
Ethiopia	99,756,649	<u>100</u> million
United Kingdom	64,596,800	<u>65</u> million
United States	325,937,137	<u>326</u> million
World	7,375,870,314	<u>7,376</u> million

Write the countries in order from least population to greatest.

7,380,000,000
330,000,000
100,000,000
65,000,000
36,000,000
24,000,000

Switch all the least with the greatest

1,405,000

16,038

16,000

67,000

50,738

51,000 +

90,000

90,329

90,000

157,000

+ 37,000

94,000

36,705

37,000

95,000

95,491

95,000

209,000

+ 22,000

22,250

22,000

311,000

47,347

47,000

+ 47,000

61,524

62,000

358,000

+ 2,000

420,000

86,371

86,000

+ 86,000

420,000

+ 86,000

506,000

506.793

506,000 ☺

1
69
22

Name: Yesenia Velazquez

Date: _____

Write only the answers.

700

91

300

101

Write the answers.

$318 + 87 = \underline{405}$

$43 + \underline{215} = 200$ ✓

$(6 \times 3) + (6 \times 4) = \underline{42}$
18 24

Handwritten subtraction: $200 - 43 = 157$

Add. Use check numbers.

$4928 \quad ()$
 $+ 2566 \quad ()$

Write these numbers using digits and commas.

39 million 24 thousand 718 39,024,718

1 billion 319 thousand 679 1,000,319,679

623 million 381 623,000,381

Fill in the table.

	Round to nearest hundred.	Round to nearest thousand.	Round to nearest million.
6,083,140	6,083,130	6,090,000	7,000,000
18,945,562	18,945,562	18,945,562	19,000,000
65,709,697	65,709,700	65,710,000	66,000,000
2,376,450,712	2,376,450,712	2,376,460,000	2,380,000,000

Handwritten notes: ① 6,083,000, ② 6,000,000

Write >, <, or = on the lines.

6 million = $3,000,000 \times 2$

$10,000 \times 10$ = 1,000,000 ↗

29×1000 = 29,000

3 hundred 6 < 3006

360 40×9 = 6×60 360

30×20 > $30 + 2$

Fill in the table.

	Quotient (answer)	Remainder
$42 \div 2$	21	0
$24 \div 7$	3	3
$73 \div 9$	8	1
$60 \div 9$	6	6
$24 \div 10$	2	4
$102 \div 10$	10	2

Name: Yesenia

Date: _____

Write only the answers.

Write the answers.

$453 + 87 = \underline{540}$

$64 + \underline{136} = 200$

$(7 \times 5) + (7 \times 2) = \underline{49}$
 $\quad \quad \quad 35 \quad \quad 14$

Add. Use check numbers.

$$\begin{array}{r} 11 \\ 3786 \quad (24) \\ + 5492 \quad (20) \\ \hline 9278 \quad 26 \end{array} \quad 44$$

Write these numbers using digits and commas.

73 million 853 thousand 37 73,853,037

18 million 46 thousand 679 18,046,679

2 billion 840 million 7 thousand 832 2,840,007,832

Fill in the table.

	Round to nearest hundred.	Round to nearest thousand.	Round to nearest million.
5,935,899	5,935,900	5,936,000	6,000,000
56,057,619	56,057,500	56,058,000	56,000,000
89,767,846	89,767,800	89,768,000	90,000,000
3,587,123,777	3,587,123,800	3,587,123,000	3,587,000,000

4

Write >, <, or = on the lines.

6 million = 2,000,000 × 3

100,000 < 10,000 × 100 1,000,000

74 × 1000 = 74,000

5009 > 5 hundred 9 509

30 × 8 = 6 × 40

500 + 20 < 500 × 2

Fill in the table.

	Quotient (answer)	Remainder
28 ÷ 2	14	0
37 ÷ 5	7	3 ✓
73 ÷ 10	7	3
98 ÷ 10	9	8
80 ÷ 9	8	8
70 ÷ 9	7	7

Name: Yesenia Velazquez

Date: _____

<p>Add using shortcuts.</p> $27 + 69 = \underline{96}$ $354 + 78 = \underline{432}$ $898 + 326 = \underline{1,224}$	<p>Add starting from the left.</p> $\begin{array}{r} 191 \\ + 323 \\ \hline 514 \end{array}$ $\begin{array}{r} 10,298 \\ + 4,375 \\ \hline 14,673 \end{array}$ $\begin{array}{r} 6537 \\ + 5948 \\ \hline 12,485 \end{array}$
<p>Subtract using shortcuts.</p> $67 - 18 = \underline{49}$ $46 - 37 = \underline{9}$ $234 - 135 = \underline{99}$	<p>Subtract using shortcuts.</p> $\begin{array}{r} 787 \\ - 768 \\ \hline 19 \end{array}$ $\begin{array}{r} 238 \\ - 209 \\ \hline 29 \end{array}$ $\begin{array}{r} 845 \\ - 547 \\ \hline 298 \end{array}$

Write a 3-digit number with consecutive digits. Then reverse the digits. For example, the first number could be 678, then the second number would be 876. Subtract the smaller number from the larger number. Do this at least three times and note the pattern.

$$\begin{array}{r} 17 \\ 8717 \\ \hline 987 \\ 789 \\ \hline 198 \end{array}$$

$$\begin{array}{r} 211 \\ 321 \\ \hline 123 \\ 123 \\ \hline 198 \end{array}$$

$$\begin{array}{r} 14 \\ 5614 \\ \hline 654 \\ 456 \\ \hline 198 \end{array}$$

Does this work for 4-digit numbers? For 5-digit numbers?

I don't Remember anything i

Write any 3-digit number. Then reverse the digits. Find the difference. Then reverse the digits of the difference and add it to original difference. For example, if the first number is 149:

$$941 - 149 = 792; 792 + 297 = \underline{\hspace{2cm}}$$

Try this with these numbers, 412, 863, and 356. Note the pattern.

$$412 - 149 = \underline{263} ; \underline{263} + 356 = \underline{619}$$

Warm-Up

Add using shortcuts.

$$72 + 19 = \underline{91}$$

$$453 + 48 = \underline{501}$$

$$129 + 33 = \underline{162}$$

Subtract using shortcuts.

$$72 - 19 = \underline{53}$$

$$453 - 48 = \underline{405}$$

$$129 - 33 = \underline{96}$$

Use side 2 of your abacus to find the differences.

$$\begin{array}{r} 314 \\ 8445 \\ -5372 \\ \hline 3073 \end{array}$$

$$\begin{array}{r} 211 \\ 3189 \\ -1734 \\ \hline 1455 \end{array}$$

$$\begin{array}{r} 61210 \\ 7240 \\ -5808 \\ \hline 1432 \end{array}$$

$$\begin{array}{r} 111 \\ 2159 \\ -451 \\ \hline 1708 \end{array}$$

$$\begin{array}{r} 41413 \\ 2573 \\ -1094 \\ \hline 1479 \end{array}$$

$$\begin{array}{r} 810512 \\ 9062 \\ -5146 \\ \hline 3916 \end{array}$$

$$\begin{array}{r} 210 \\ 3079 \\ -1836 \\ \hline 1243 \end{array}$$

$$\begin{array}{r} 15 \\ 7512 \\ 8625 \\ -6632 \\ \hline 1993 \end{array}$$

$$\begin{array}{r} 810512 \\ 9162 \\ -4585 \\ \hline 4577 \end{array}$$

$$\begin{array}{r} 314 \\ 9468 \\ -8273 \\ \hline 1195 \end{array}$$

$$\begin{array}{r} 713 \\ 4883 \\ -1709 \\ \hline 315 \end{array}$$

$$\begin{array}{r} 1411 \\ 14118 \\ 2728 \\ -1859 \\ \hline 849 \end{array}$$

Name: _____

Date: _____

Warm-Up

Subtract.

$$\begin{array}{r} 143 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 587 \\ - 392 \\ \hline \end{array}$$

$$\begin{array}{r} 847 \\ - 598 \\ \hline \end{array}$$

Use adding up and check numbers to find the errors. Then correct the errors in the space below.

$$\begin{array}{r} 1. \quad 8449 \text{ (7)} \\ - 4177 \text{ (1)} \\ \hline 4372 \text{ (7)} \end{array}$$

$$\begin{array}{r} 2. \quad 9427 \text{ (4)} \\ - 7921 \text{ (1)} \\ \hline 1596 \text{ (3)} \end{array}$$

$$\begin{array}{r} 3. \quad 6966 \text{ (0)} \\ - 4138 \text{ (7)} \\ \hline 2838 \text{ (2)} \end{array}$$

$$\begin{array}{r} 4. \quad 3443 \text{ (5)} \\ - 1088 \text{ (8)} \\ \hline 2355 \text{ (7)} \end{array}$$

$$\begin{array}{r} 5. \quad 8194 \text{ (4)} \\ - 5532 \text{ (6)} \\ \hline 2552 \text{ (2)} \end{array}$$

$$\begin{array}{r} 6. \quad 4912 \text{ (7)} \\ - 3134 \text{ (2)} \\ \hline 1778 \text{ (5)} \end{array}$$

$$\begin{array}{r} 7. \quad 5129 \text{ (8)} \\ - 3186 \text{ (0)} \\ \hline 2043 \text{ (0)} \end{array}$$

$$\begin{array}{r} 8. \quad 9095 \text{ (5)} \\ - 4697 \text{ (8)} \\ \hline 4498 \text{ (7)} \end{array}$$

$$\begin{array}{r} 9. \quad 5660 \text{ (8)} \\ - 3496 \text{ (4)} \\ \hline 2164 \text{ (4)} \end{array}$$

Subtract and check your work.

$$\begin{array}{r} 10. \quad 7797 \text{ ()} \\ - 843 \text{ ()} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 6595 \text{ ()} \\ - 5456 \text{ ()} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 6042 \text{ ()} \\ - 3537 \text{ ()} \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 2275 \text{ ()} \\ - 757 \text{ ()} \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 7890 \text{ ()} \\ - 4362 \text{ ()} \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 4175 \text{ ()} \\ - 1802 \text{ ()} \\ \hline \end{array}$$

Name: _____

Date: _____

Warm-Up

Subtract these numbers.

$$\begin{array}{r} 543 \text{ ()} \\ - 435 \text{ ()} \\ \hline 108 \end{array}$$

$$\begin{array}{r} 752 \text{ ()} \\ - 527 \text{ ()} \\ \hline 225 \end{array}$$

$$\begin{array}{r} 947 \text{ ()} \\ - 479 \text{ ()} \\ \hline 468 \end{array}$$



INFORMATION: A magic square is a special array of numbers. In a magic square, the sum of each row, column, and diagonal is the same. This sum is the *magic sum*.

Complete the magic squares below. Write the magic sums below them.

2	9	4
7	5	3
6	1	8

15

8	1	6
3	5	7
4	9	2

15

16	3	2	13
5	10	11	8
9	6	7	2
4	15	14	1

34

9	6	3	16
4	15	10	5
14	1	8	11
7	12	13	2

34

Complete the magic squares.

Rotations

A

2	9	4
7	5	3
6	1	8

B

6	7	2
1	5	9
8	3	4

C

8	1	6
3	5	7
4	9	2

D

4	3	8
9	5	1
2	7	6

E

6	1	8
7	5	3
2	9	4

F

4	9	2
3	5	7
8	1	6

G

2	7	6
9	5	1
4	3	8

H

8	3	4
1	5	9
6	7	2

Reflections

Warm-Up

Subtract these numbers.

$$\begin{array}{r} 872 \\ - 728 \\ \hline 144 \end{array}$$

$$\begin{array}{r} 734 \\ - 347 \\ \hline 387 \end{array}$$

$$\begin{array}{r} 429 \\ - 294 \\ \hline 135 \end{array}$$

1. Add 7 to each cell in the magic square to make a new array. Is the new array a magic square? _____

2	9	4	+ 7	9	16	11
7	5	3		14	12	10
6	1	8		13	8	15

2. Subtract 3 to each cell in the magic square to make a new array. Is the new array a magic square? _____

6	1	8	- 3	3	-2	5
7	5	3		4	2	0
2	9	4		-1	6	1

3. Multiply each cell in the magic square by 11 to make a new array. Is the new array a magic square? yes

4	9	2	× 11	44	99	22
3	5	7		33	55	77
8	1	6		88	11	66

_____ magic sum: _____

4. Add corresponding numbers in the two magic squares. Is the new array a magic square? yes

-1	3	-2	+	2	1	6	=	1	4	4
-1	0	1		7	3	-1		6	3	0
2	-3	1		0	5	4		2	2	5

5. What is the relationship between the magic sum and the number in the middle cell?

multiply

6. Use the relationship you found at the left to complete these magic squares.

3	5	10	13	3	5	10	4	15
13	6	-1			15		8	
2	7	9						

Name: Yesenia

Date: _____

Warm-Up

Complete these equations.

$6 - 3 = \underline{3}$

$5 - 6 = \underline{1}$

$-1 + 5 = \underline{4}$

$2 - 3 = \underline{1}$

$9 - 11 = \underline{2}$

$-3 + 2 = \underline{-1}$

$7 - 9 = \underline{2}$

$1 - 5 = \underline{4}$

$-1 + 8 = \underline{7}$

Complete the magic squares below. 34

32

A	7	12	1	14
	<u>0</u>	13	8	11
	16	3	<u>8</u>	5
	9	<u>4</u>	15	4

34

B	12	1	14	7
	<u>13</u>	<u>8</u>	<u>11</u>	<u>2</u>
	3	10	5	16
	6	15	4	9

34

C	4	14	15	<u>1</u>
	9	7	6	<u>12</u>
	5	11	10	<u>8</u>
	16	2	3	<u>3</u>

20
10

D	<u>0</u>	3	4	13
	10	<u>0</u>	<u>10</u>	0
	17	4	<u>6</u>	-7
	-7	13	0	14

34

E	<u>1</u>	12	8	<u>3</u>
	15	6	10	3
	14	7	11	2
	4	9	5	<u>16</u>

34

F	6	<u>15</u>	<u>4</u>	9
	3	10	5	16
	13	8	11	2
	12	<u>1</u>	14	7

15

G	<u>18</u>	<u>-1</u>	-2	8
	9	1	2	3
	-2	7	5	5
	-2	8	<u>10</u>	<u>?</u>

33

H	1	14	14	<u>4</u>
	11	7	<u>6</u>	9
	8	<u>10</u>	10	5
	<u>13</u>	2	3	15

- Which two magic squares are reflections of each other? GE
- Which two magic squares are rotations of each other? HF
- Which three magic squares are not normal? GFE I am so hungry and tired
- What is special about the sum of the 4 corners? Because 789 I am so tired
- What is special about the sum of the inner squares? _____
- Top middle numbers + 33 = magic sum.
- Left middle numbers + 34 = magic sum.
- Add the corresponding cells in magic squares G and H. Write the sums in the square at the right. What is its magic sum? 13 and 33

Name: Yesenia

Date: _____

Warm-Up

Complete these equations.

$27 - 21 = \underline{6}$

$114 - 115 = \underline{-1}$

$10 - 30 = \underline{-20}$

$27 - 29 = \underline{18}$

$128 - 130 = \underline{-2}$

$40 - 50 = \underline{-10}$

$27 - 30 = \underline{-3}$

$497 - 500 = \underline{-3}$

$200 - 300 = \underline{-100}$

Terry found another way to subtract. Terry's friends like it because they don't need to use any facts like $14 - 9$. Here are some examples. What do you think?

$87 - 49 = 40 - 2 = 38$

$516 - 394 = 200 - 80 + 2 = 122$

$7365 - 5468 = 2000 - 100 - 3 = 1897$

Before you say, "I don't get it," let Terry explain it to you.

I start by subtracting the thousands

Now hundreds—oops, not enough. So I write -100 .

Tens are easy: nothing to write.

$$7365 - 5468 = 2000 - 100 - 3 = 1897$$

Not enough ones. So I write -3 .

Then combine:
 $2000 - 100 = 1900$
 $\& 1900 - 3 = 1897$.

Now you try it. Be sure to check your work.

$91 - 57 = \underline{34}$

$371 - 191 = \underline{371-191=180}$

$809 - 437 = \underline{372}$

$4792 - 3285 = \underline{1507}$

$3141 - 893 = \underline{2248}$

$7040 - 2769 = \underline{7040-2769=4271}$

Warm-Up

Use Terry's way to subtract. Use check numbers if you like.

$$719 - 521 = \underline{200-10+8=198}$$

$$462 - 293 = \underline{200-30-2=169}$$

Terry's friends liked to subtract Terry's way, but they wanted to write the subtraction vertically. Here are some examples. What do you think?

$$\begin{array}{r} 54 \\ - 29 \\ \hline 30 \\ - 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 852 \\ - 375 \\ \hline 500 \\ - 20 \\ \hline -3 \\ 477 \end{array}$$

$$\begin{array}{r} 6592 \\ - 3718 \\ \hline 3000 \\ - 200 \\ \hline 80 \\ - 6 \\ \hline 2874 \end{array}$$

Here is Terry again, explaining it to you.

$$\begin{array}{r} 6592 \\ - 3718 \\ \hline 3000 \end{array}$$

I start by subtracting the thousands.

$$\begin{array}{r} 6592 \\ - 3718 \\ \hline 3000 \\ - 200 \end{array}$$

Now hundreds—oops, not enough. So I write -200.

$$\begin{array}{r} 6592 \\ - 3718 \\ \hline 3000 \\ - 200 \\ \hline 80 \end{array}$$

Tens are easy: $90 - 10 = 80$.

$$\begin{array}{r} 6592 \\ - 3718 \\ \hline 3000 \\ - 200 \\ \hline 80 \\ - 6 \end{array}$$

Not enough ones. So I write -6.

$$\begin{array}{r} 6592 \\ - 3718 \\ \hline 3000 \\ - 200 \\ \hline 80 \\ - 6 \\ \hline 2874 \end{array}$$

Then combine: $3000 - 200 = 2800$ and $80 - 6 = 74$. The sum is 2874.

Now you try it. Be sure to check your work.

$$\begin{array}{r} 62 \\ - 35 \\ \hline 30 \\ - -3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 910 \\ - 112 \\ \hline 800 \\ 00 \\ - -2 \\ \hline 798 \end{array}$$

$$\begin{array}{r} 859 \\ - 379 \\ \hline 500 \\ - 20 \\ \hline - 0 \\ 480 \end{array}$$

$$\begin{array}{r} 6076 \\ - 4059 \\ \hline 2000 \\ 000 \\ 20 \\ - -3 \\ \hline 2017 \end{array}$$

$$\begin{array}{r} 3843 \\ - 3386 \\ \hline 0000 \\ 500 \\ - 40 \\ - 3 \\ \hline 457 \end{array}$$

$$\begin{array}{r} 7083 \\ - 3259 \\ \hline 4000 \\ - 200 \\ 30 \\ - 6 \\ \hline 3864 \end{array}$$

$$\begin{array}{r} 6005 \\ - 1009 \\ \hline 5000 \\ 000 \\ 00 \\ - 3 \\ \hline 4907 \end{array}$$

Name: Mew Velazquez

Date: _____

Write only the answers.

Write the answers.

$582 + 69 = \underline{651}$

$87 + \underline{???} = 200$

$(6 \div 3) + (6 \div 2) = \underline{5}$

Add or subtract.

$$\begin{array}{r} 9575 \\ + 5592 \\ \hline 15167 \end{array}$$

$$\begin{array}{r} 4763 \\ + 5251 \\ \hline 10014 \end{array}$$

$$\begin{array}{r} 9515 \\ - 5592 \\ \hline 4083 \end{array}$$

$$\begin{array}{r} 4012 \\ - 1802 \\ \hline 2210 \end{array}$$

Utah's population is two million nine hundred thousand eight hundred seventy-two. Underline the period names. Write the number using digits and commas. 2,900,872

Fill in the blanks.

$3 \times \underline{8} = 24$

$8 \times \underline{8} = 64$

$7 \times \underline{2} = 14$

$\underline{4} \times 11 = 44$

$\underline{6} \times 9 = 54$

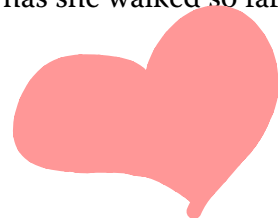
$6 \times \underline{4} = 24$

$2 \times \underline{7} = 14$

Solve the problem.

Kendra wants to walk her dog for an hour. She has 25 minutes left to walk. How long has she walked so far?

35



Draw lines to match the expressions.

164 × 4	16 × 2 32
40 8 × 5	6 × 5 + 6 × 2 42
32 8 × 4	5 × 5 25
25 20 + 5	8 × 2 16
63 9 × 7	6 × 7 - 2 40
426 × 7	50 - 1 49
8 32 ÷ 4	9 × 6 + 2 56
49 7 × 7	70 - 7 63
56 8 × 7	2 × 2 × 2 8

Complete the magic square.

27			
14	5	1	7
-1	7	8	13
6	4	8	9
8	11	9	-2

Name: Mew Velazquez

Date: _____

Write only the answers.

Write the answers.

$674 + 86 = \underline{760}$

$41 + \underline{159} = 200$

$(\frac{8 \div 4}{32}) + (\frac{8 \div 2}{16}) = \underline{48}$

*Divide
Multiply*

Add or subtract.

$$\begin{array}{r} 7864 \\ + 3894 \\ \hline 11758 \end{array}$$

$$\begin{array}{r} 9813 \\ + 9267 \\ \hline 19080 \end{array}$$

$$\begin{array}{r} 4603 \\ - 1597 \\ \hline 3006 \end{array}$$

$$\begin{array}{r} 7390 \\ - 3503 \\ \hline 3887 \end{array}$$

Hawaii's population is one million four hundred four thousand fifty-four. Underline the period names. Write the number using digits and commas. 1,404,054

Fill in the blanks.

$2 \times \underline{8} = 16$

$6 \times \underline{6} = 36$

$7 \times \underline{8} = 56$

$11 \times \underline{6} = 66$

$\underline{4} \times 4 = 16$

$8 \times \underline{7} = 56$

$\underline{4} \times 9 = 36$

Solve the problem.

Kevin is playing hockey for an hour. He has 35 minutes left to play. How long has he played already?

25



Draw lines to match the expressions.

819 × 9	8 × 3 24
357 × 5	10 × 8 - 8 72
246 × 4	90 - 9 81
748 × 8	6 × 6 - 1 35
729 × 8	80 - 16 74
5650 + 6	7 × 8 56
540 ÷ 8	7 × 10 - 7 63
637 × 9	40 + 5 45
459 × 5	20 ÷ 4 5

Complete the magic square.

21

5	2	6	8
7	6	-1	12
7	3	16	4
11	3	10	-3

Name: Mew Velazquez

Date: _____

Solve these problems.

1. The populations of some states are: California, 38,332,521; New York, 19,651,127; and Florida, 19,552,860. Does California have more people than New York and Florida together?

No

2. Peyton has \$30.00 and is buying three food items costing \$9.49, \$7.97, and \$11.53. Does Peyton have enough money?

\$ 27.99 or \$ 28

$$\begin{array}{r}
 46 \\
 +53 \\
 \hline
 99
 \end{array}
 \quad
 \begin{array}{r}
 16 \\
 27
 \end{array}
 \quad
 \begin{array}{r}
 97 \\
 +49 \\
 \hline
 146 = 1.46
 \end{array}$$

3. When Skylar awoke in the morning, the temperature was -2° . By 3:00 p.m. the temperature is 10 degrees warmer. What is the temperature?

8

4. Avery is thinking of even numbers less than 50 that when divided by 7 have a remainder of 1. What are the numbers?

36,8,22,

5. Tony and his family are traveling to visit relatives. The trip takes 2 hours and 40 minutes. If they leave at 9:10 and make two stops of 15 minutes each, what time will they arrive?

12:20am

$$\begin{array}{r} 19,651,127 \\ + 19,552,860 \\ \hline 39,203,987 \end{array}$$

Warm-Up

Subtract. Use your favorite method.

$$\begin{array}{r} 210 \\ 638 \\ - 429 \\ \hline 209 \end{array}$$

$$\begin{array}{r} 612 \\ 742 \\ - 289 \\ \hline 453 \end{array}$$

Solve these number puzzles by putting in symbols such as: +, -, =, ×, ÷ to make equations.

$$\begin{array}{l} 1422 \\ \underline{1 \times 4 = 2 + 2} \\ \underline{1 \times 4 - 2 = 2} \end{array}$$

$$\begin{array}{l} 2316 \\ \underline{2 \times 3 = 1 \times 6} \\ \underline{2 + 3 + 1 = 6} \end{array}$$

$$\begin{array}{l} 6212 \\ \underline{6/2 = 1 + 2} \\ \underline{6 = (2 + 1)2} \\ \underline{6 = 2(1 + 2)} \end{array}$$

Put <, > or = in the ellipses. Do not perform the calculations, but decide the answer by noticing patterns. Be prepared to justify your work.

- | | |
|--|--|
| a. $384 + 197 + 802 \text{ } \textcircled{>} \text{ } 381 + 196 + 799$ | f. $79 + 81 \text{ } \textcircled{=} \text{ } 80 \times 2$ |
| b. $363 - 236 + 220 \text{ } \textcircled{<} \text{ } 363 - 236 + 234$ | g. $170 \div 2 \text{ } \textcircled{>} \text{ } 170 \div 5$ |
| c. $4765 - 2280 \text{ } \textcircled{>} \text{ } 4765 - 2995$ | h. $682 \div 3 \text{ } \textcircled{<} \text{ } 696 \div 3$ |
| d. $994 + 994 + 994 \text{ } \textcircled{<} \text{ } 994 \times 4$ | i. $491 - 493 \text{ } \textcircled{<} \text{ } 0$ |
| e. $45 \times 10 \text{ } \textcircled{=} \text{ } 45 \times 5 \times 2$ | j. $37 \times 80 \times 923 \text{ } \textcircled{=} \text{ } 923 \times 80 \times 37$ |

Put <, > or = in the circles.

k. $14 \times 68 \text{ } \textcircled{>} \text{ } 2 \times 4 \times 68$ _____

l. $5716 - 378 \text{ } \textcircled{>} \text{ } 5720 - 382$ _____

m. $6472 - 2959 \text{ } \textcircled{<} \text{ } 6472 - 2859$ _____

n. $819 \times 3 + 819 \text{ } \textcircled{=} \text{ } 819 \times 4$ _____

o. $712 \div 9 \text{ } \textcircled{<} \text{ } 712 \div 8$ _____

$$3+4-2=5$$

Name: _____

Date: _____

Warm-Up

Find two solutions for these number puzzles. Make equations by putting in symbols such as +, -, =, ×, ÷.

$$\begin{array}{r} 1\ 2\ 3\ 4 \\ 1=(2+3)-4 \\ \hline -1+2+3=4 \end{array}$$

$$\begin{array}{r} 5\ 1\ 1\ 6 \\ 5 \times 1 + 1 = 6 \\ \hline 5 + 1 = 1 \times 6 \end{array}$$

Find the products. Write the partial products.

$$\begin{array}{r} 5\ 4 \\ 3\ 6\ 5 \\ \times 9 \\ \hline 3\ 2\ 8\ 5 \end{array}$$

$$\begin{array}{r} 7\ 3 \\ 8\ 9\ 4 \\ \times 8 \\ \hline 7\ 1\ 5\ 2 \end{array}$$

32

$$\begin{array}{r} 2\ 3\ 4 \\ 1\ 4\ 6\ 8 \\ \times 5 \\ \hline 7\ 3\ 4\ 0 \end{array}$$

$$\begin{array}{r} 2\ 4\ 3 \\ 1\ 3\ 7\ 6 \\ \times 6 \\ \hline 8\ 2\ 5\ 6 \end{array}$$

$$\begin{array}{r} 4\ 6 \\ 5\ 6\ 0\ 8 \\ \times 8 \\ \hline 4\ 4\ 8\ 6\ 4 \end{array}$$

$$\begin{array}{r} 7\ 6\ 5 \\ 9\ 8\ 7\ 6 \\ \times 9 \\ \hline 8\ 8\ 8\ 8\ 4 \end{array}$$

$$\begin{array}{r} 2\ 3\ 3 \\ 3\ 5\ 7\ 9 \\ \times 4 \\ \hline 1\ 4\ 3\ 1\ 6 \end{array}$$

$$\begin{array}{r} 1\ 6\ 4 \\ \$ 5\ 1\ 8\ 6 \\ \times 7 \\ \hline \$ 3\ 6\ 3\ 0\ 2 \end{array}$$

Name: _____

Date: _____

Warm-Up

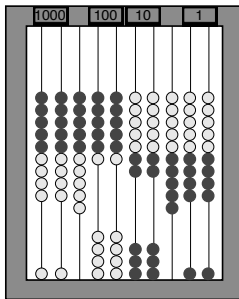
Find the products using partial products. Use your abacus if needed.

	2		
3	8	2	
		×	3
1	1	4	6

	1		
6	3	9	
		×	2
1	2	7	8

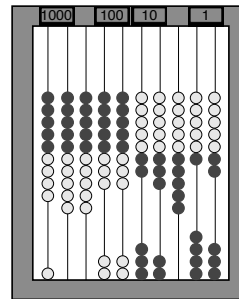
Use your abacus to do the following multiplications.

Multiply the number on the abacus by 2.



	1		
2	8	6	2
		×	2
4	7	2	4

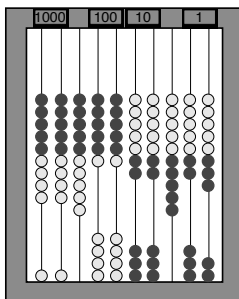
Multiply the number on the abacus by 6.



	2	3	4
1	4	5	7
		×	6
8	7	4	2

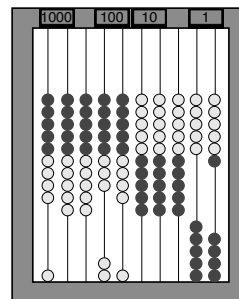
**TELL ME HOW
TO READ THIS**

Multiply the number on the abacus by 4.



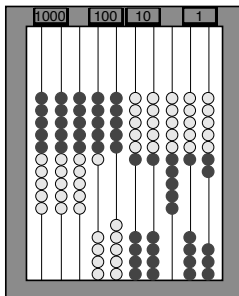
	3	2	2	
2	8	6	5	
		×	4	
1	1	4	8	0

Multiply the number on the abacus by 8.



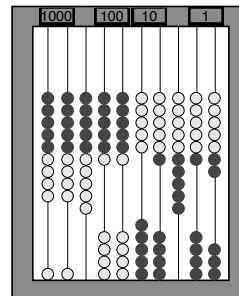
	2	7		
1	3	0	9	
		×	8	
1	0	4	7	2

Multiply the number on the abacus by 7.



	5		
9	8	7	
		×	7
6	8	6	9

Multiply the number on the abacus by 5.



	4	4	3	
2	8	9	7	
		×	5	
1	4	4	8	5

Name: _____

Date: _____

a.

Use partial products.	Add.	Multiply.
$\begin{array}{r} 3213 \\ \times 3 \\ \hline 9639 \end{array}$	$\begin{array}{r} 3213 \\ 3213 \\ + 3213 \\ \hline 9639 \end{array}$	$\begin{array}{r} 3213 \\ \times 3 \\ \hline 9639 \end{array}$

Multiply.

$$\begin{array}{r} 1320 \\ \times 4 \\ \hline 5280 \end{array}$$

$$\begin{array}{r} 414 \\ 3829 \\ \times 5 \\ \hline 19145 \end{array}$$

b.

Use partial products.	Add.	Multiply.
$\begin{array}{r} 3849 \\ \times 3 \\ \hline 11547 \end{array}$	$\begin{array}{r} 3849 \\ 3849 \\ + 3849 \\ \hline 11547 \end{array}$	$\begin{array}{r} 3849 \\ \times 3 \\ \hline 11547 \end{array}$

$$\begin{array}{r} 541 \\ 4672 \\ \times 6 \\ \hline 29032 \end{array}$$

$$\begin{array}{r} 7015 \\ \times 7 \\ \hline 49105 \end{array}$$

c.

Add.	Multiply. Use check numbers.
$\begin{array}{r} 4519 \\ 4519 \\ 4519 \\ 4519 \\ 4519 \\ + 4519 \\ \hline 27114 \end{array}$	$\begin{array}{r} 315 \\ 4519 \\ \times 6 \\ \hline 27114 \end{array}$

$$\begin{array}{r} 364 \\ 3375 \\ \times 8 \\ \hline 27000 \end{array}$$

$$\begin{array}{r} 677 \\ 5678 \\ \times 9 \\ \hline 51102 \end{array}$$

When you find 6824 taken 7 times, which method is easiest—partial products, adding, or multiplying? Why? Multiplying is better because Its eRtH wOrM sAILy CaRiNG
DeSiEsE FrOm FIOrDiA tO cAlle that's why also because it's easier

Name: _____

Date: _____

Warm-Up

Complete the magic square.

6	-2	9	7
4	8	3	5
10	10	-2	1
0	4	9	7

Find two solutions for this number puzzle.

Make equations by putting in symbols such as: +, -, =, ×, ÷.

1 2 2 4

Write equations and solve the following problems.

1. Sherry is 11 years old. Her grandfather is 7 times older than she is. How old is her grandfather? How much younger is Sherry than her grandfather?

Sherrys grandfather is 77. Sherry is 66 years younger than her grandfather.

2. The Confederation Bridge in Canada is 8 miles long. Lake Pontchartrain Causeway in Louisiana is 24 miles long. How many times longer is the causeway than the bridge? How much longer is the causeway than the bridge?

The causeway is 3 times longer than the bridge. The causeway is 16 miles longer than the bridge

3. At birth an elephant weighs about 100 kg. When it is grown, it weighs 35 times as much. How much is that? How much weight did the baby gain growing up?

The baby will weigh 3,500 kg. The baby has gained 1,500 or I think.

4. Harry is 4 ft tall. A foot is 12 times longer than an inch. How tall is Harry in inches?

48 inches

4×12

Name: Yesenia Velazquez

Date: _____

Write only the answers.

Write the answers.

$641 + 273 = \underline{914}$

$49 + \underline{551} = 600$

$(12 \div 3) + (12 \div 2) = \underline{60}$
36 24

Do the arithmetic.

$\begin{array}{r} 11 \\ 8374 \\ + 3558 \\ \hline 11932 \end{array}$

$\begin{array}{r} 49910 \\ 7000 \\ - 2001 \\ \hline 4999 \end{array}$

$\begin{array}{r} 12 \\ 629 \\ \times 4 \\ \hline 2516 \end{array}$

$\begin{array}{r} 21 \\ 4172 \\ \times 5 \\ \hline 20860 \end{array}$

Multiply and add.

$1 \times 9 + 2 = \underline{11}$

$12 \times 9 + 3 = \underline{111}$

$123 \times 9 + 4 = \underline{1,111}$

$1234 \times 9 + 5 = \underline{11,111}$

Solve the problems.

Sam earned \$7.75 on Tuesday and \$7.25 on Thursday. Then Sam bought some items. They cost 99¢, \$11.05, and \$2.15. How much money does Sam have left?

79¢

Steel is 8 times heavier than ice. If a cube of ice weighs 23 g, what would the cube weigh if it were made of steel?

184 grams

The sun is one hundred forty-nine billion five hundred ninety-seven million eight hundred seventy thousand seven hundred meters from Earth. Write this number with numerals.

149,597,870,700

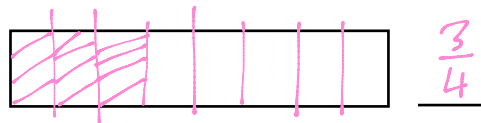
$\begin{array}{r} 15 \\ 1 \\ 11 \\ 2 \\ \hline 23 \\ \times 8 \\ \hline 184 \end{array}$

Warm-Up

Multiply.	$\overset{2}{2}7$ ()	$\overset{4}{4}6$ ()	$\overset{2}{9}4$ ()	$\overset{1}{1}\overset{4}{2}9$ ()
	$\times 3$ ()	$\times 8$ ()	$\times 6$ ()	$\times 5$ ()
	$\boxed{81}$ ()	$\boxed{348}$ ()	$\boxed{564}$ ()	$\boxed{645}$ ()

For each problem, write the fraction of the rectangle that is crosshatched on the line.

1. Divide the rectangle into fourths and each fourth into halves. Crosshatch 3 pieces.



$\frac{3}{4}$

2. Divide the rectangle into halves and each half into thirds. Crosshatch 2 pieces.



$\frac{2}{2}$

3. Divide the rectangle into thirds and each third into thirds. Crosshatch 5 pieces.



$\frac{5}{3}$

4. Crosshatch one half of this rectangle.



$\frac{1}{2}$

Also crosshatch one half of this rectangle and then divide each half into halves.



$\frac{1}{4}$

Crosshatch one half of this rectangle and then divide each half into halves and each of those halves in half.



$\frac{1}{3}$

5. Crosshatch two thirds of this rectangle.



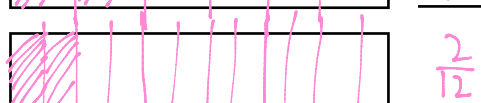
$\frac{2}{3}$

Crosshatch two thirds of this rectangle. Divide each third in half.



$\frac{2}{5}$

Crosshatch two thirds of this rectangle. Divide each third in half. Then divide each piece in half again.



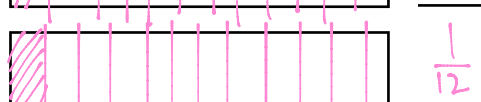
$\frac{2}{12}$

6. Divide the rectangle into fourths and each fourth into thirds. Crosshatch one piece.



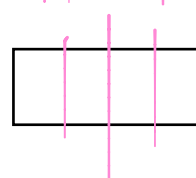
$\frac{1}{12}$

Divide the rectangle into thirds and each third into fourths. Crosshatch one piece.



$\frac{1}{12}$

7. Divide the rectangle in half, but draw the line only halfway down. Divide the halves in half, but draw the lines only one fourth the way down. Divide the fourths in half, but draw the lines only one eighth the way down.



Warm-Up

Do the arithmetic.

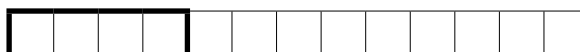
$$\begin{array}{r} 1 \\ 4982 \text{ ()} \\ + 2894 \text{ ()} \\ \hline 7876 \end{array}$$

$$\begin{array}{r} 17 \\ 8 \cancel{7} 2 \\ - 2894 \text{ ()} \\ \hline 2088 \end{array}$$

$$\begin{array}{r} 33 \\ 498 \text{ ()} \\ \times 4 \text{ ()} \\ \hline 1992 \end{array}$$

$$\begin{array}{r} 2 \\ 2894 \text{ ()} \\ \times 7 \text{ ()} \\ \hline 8 \end{array}$$

This rectangle is 1 inch long.



1. Draw a rectangle $1\frac{1}{2}$ inches long.



2. Draw a rectangle $1\frac{1}{4}$ inches long.



3. Draw a rectangle $1\frac{3}{4}$ inches long.



4. Draw a rectangle 2 inches long.



5. Draw a rectangle $\frac{1}{8}$ inch long.



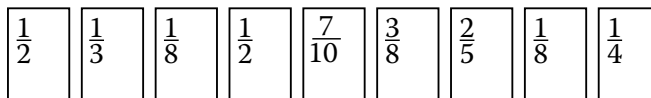
6. Draw a rectangle $2\frac{1}{8}$ inches long.



7. Draw a rectangle $2\frac{1}{4}$ inches long.



From the cards shown on the right, choose the correct card to make each row below equal 1 and write the card in. Use your fraction chart if needed.



8. $\frac{7}{8}$ $\frac{1}{8}$

9. $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{4}$

10. $\frac{2}{5}$ $\frac{1}{5}$ $\frac{2}{5}$

11. $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$

12. $\frac{1}{10}$ $\frac{1}{10}$ $\frac{3}{10}$ $\frac{1}{2}$

13. $\frac{1}{10}$ $\frac{1}{5}$ $\frac{7}{10}$

14. $\frac{1}{2}$ $\frac{1}{8}$ $\frac{3}{8}$

15. $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{8}$ $\frac{1}{8}$

16. $\frac{1}{6}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{3}$

Name: Yesenia

Date: _____

Write only the answers.

$$\begin{array}{r} 5600 \\ \hline 237 \\ \hline 640 \end{array}$$

$$\begin{array}{r} 80 \\ \times 8 \\ \hline 640 \end{array}$$

Write the answers.

$$746 + 84 = \underline{830}$$

$$45 + \underline{955} = 1000$$

$$2\frac{2}{5} + 1\frac{3}{5} = \underline{4}$$

$$\begin{array}{r} 746 \\ + 84 \\ \hline 830 \end{array}$$

Do the arithmetic. Use check numbers.

$\begin{array}{r} 1111 \\ 24,479 \end{array} ()$	$\begin{array}{r} 8914 \\ 9047 \end{array} ()$	$\begin{array}{r} 326 \\ 8529 \end{array} ()$	$\begin{array}{r} 31 \\ 4172 \end{array} ()$
$+ 37,548 ()$	$- 3567 ()$	$\times 7 ()$	$\times 5 ()$
$\underline{62,024}$	$\underline{5480}$	$\underline{59,703}$	$\underline{20860}$

The population of Red Deer and the nearby area is 100,807. Write this number in words.

One hundred thousand eight hundred in seven

Write >, <, or = on the lines.

$$\frac{1}{2} \text{ of } 4 \underline{>} \frac{1}{2} \text{ of } 2$$

$$\frac{2}{4} \underline{=} \frac{1}{2}$$

$$1 + \frac{1}{2} \underline{=} 1\frac{1}{2}$$

$$\frac{2}{3} \underline{>} \frac{2}{4}$$

$$\frac{3}{3} \underline{=} \frac{4}{4}$$

$$\frac{1}{6} \underline{<} \frac{5}{6}$$

Solve the problem.

Aidan earned \$16 on Tuesday and three times as much on Saturday. How much did Aidan earn on Saturday?
How much did Aidan earn on both days?

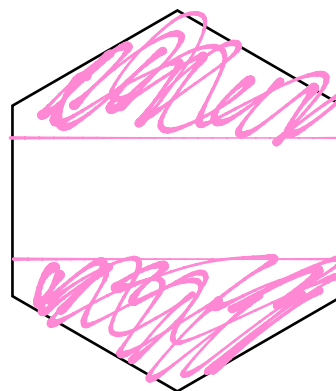
$$\begin{array}{r} 16 \\ \times 3 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 48 \\ + 16 \\ \hline 64 \end{array}$$

Draw lines to match the expressions.

one half	_____	4
$3 \div 2$	_____	$\frac{1}{2}$
one half of 8	_____	$\frac{2}{3}$
$\frac{1}{2}$ of $\frac{1}{2}$	_____	$1\frac{1}{2}$
$\frac{1}{3} \times 2$	_____	$\frac{1}{4}$
$\frac{1}{10} + \frac{9}{10}$	_____	$\frac{7}{10}$
$6 \div 2$	_____	1
$1 - \frac{3}{10}$	_____	$\frac{6}{2}$

Crosshatch $\frac{2}{3}$ of the hexagon.



Name: _____

Date: _____

Write only the answers.

Write the answers.

$657 + 94 = \underline{\hspace{2cm}}$

$63 + \underline{\hspace{2cm}} = 1000$

$1\frac{5}{6} + 2\frac{1}{6} = \underline{\hspace{2cm}}$

Do the arithmetic. Use check numbers.

$$\begin{array}{r} 42,974 \text{ ()} \\ + 38,845 \text{ ()} \\ \hline \end{array}$$

$$\begin{array}{r} 8703 \text{ ()} \\ - 4596 \text{ ()} \\ \hline \end{array}$$

$$\begin{array}{r} 2958 \text{ ()} \\ \times 8 \text{ ()} \\ \hline \end{array}$$

$$\begin{array}{r} 7251 \text{ ()} \\ \times 6 \text{ ()} \\ \hline \end{array}$$

The population of Markham, Ontario, is 301,709. Write this number in words.

Write >, <, or = on the lines.

$\frac{1}{2} \text{ of } 3 \text{ } \underline{\hspace{1cm}} \text{ } \frac{1}{2} \text{ of } 4$

$\frac{1}{2} \text{ } \underline{\hspace{1cm}} \text{ } \frac{3}{6}$

$\frac{1}{2} + 1 \text{ } \underline{\hspace{1cm}} \text{ } 1\frac{1}{2}$

$\frac{3}{4} \text{ } \underline{\hspace{1cm}} \text{ } \frac{3}{6}$

$\frac{2}{2} \text{ } \underline{\hspace{1cm}} \text{ } \frac{8}{8}$

$\frac{1}{8} \text{ } \underline{\hspace{1cm}} \text{ } \frac{5}{8}$

Solve the problem.

James and his friends earned \$24 on Friday and three times as much on Saturday. How much did they earn on Saturday? How much did they earn on both days?

Draw lines to match the expressions.

one third

$5 \div 2$

one half of 6

$\frac{1}{2} \text{ of } \frac{1}{3}$

$\frac{1}{5} \times 2$

$\frac{3}{10} + \frac{7}{10}$

$7 \div 2$

$1 - \frac{1}{10}$

3

$\frac{1}{3}$

$\frac{2}{5}$

$2\frac{1}{2}$

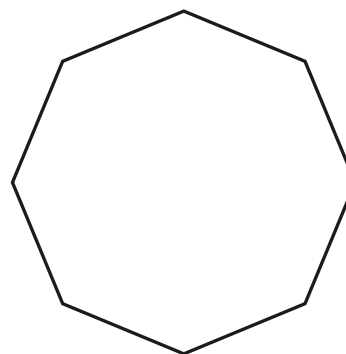
$\frac{1}{6}$

$\frac{9}{10}$

1

$\frac{7}{2}$

Crosshatch $\frac{3}{4}$ of the octagon.



Name: _____

Date: _____

Warm-Up

Do the arithmetic. Use check numbers.

$$\begin{array}{r} 7268 \quad () \\ + 2687 \quad () \\ \hline 9955 \end{array}$$

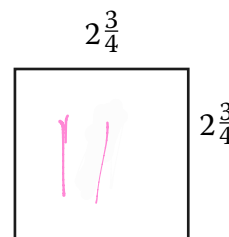
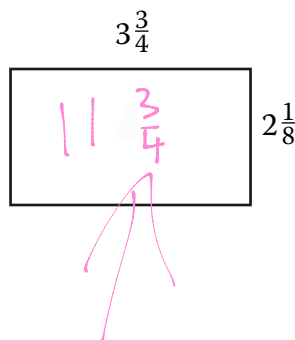
$$\begin{array}{r} 6114 \\ 7268 \quad () \\ - 2687 \quad () \\ \hline 4581 \end{array}$$

$$\begin{array}{r} 24 \\ 726 \quad () \\ \times 8 \quad () \\ \hline 5808 \end{array}$$

$$\begin{array}{r} 222 \\ 2687 \quad () \\ \times 3 \quad () \\ \hline 8061 \end{array}$$

Solve these problems. Explain your answers.

1. Which rectangle has the greater perimeter?



$$12 \text{ in} = 1 \text{ ft}$$

2. Sammy is making a craft project and has one foot of very expensive ribbon. Sammy cuts pieces $1\frac{1}{4}$, $1\frac{3}{4}$, $2\frac{5}{8}$, $2\frac{3}{4}$, $\frac{7}{8}$, and $1\frac{1}{2}$ inches long. How much ribbon is left? Explain your work.

$$10\frac{3}{4} \text{ in}$$

Name: Yusef

Date: _____

Warm-Up

Do the arithmetic. Use check numbers.

$$\begin{array}{r} 5854 \quad () \\ + 4585 \quad () \\ \hline 10439 \end{array}$$

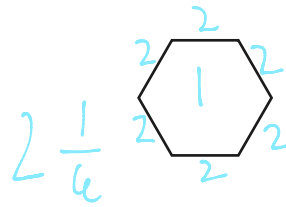
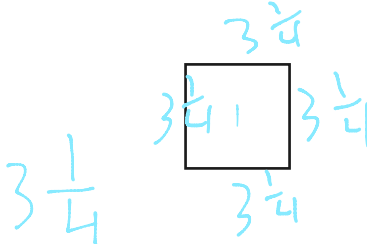
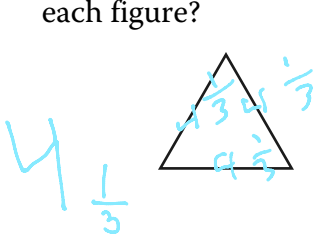
$$\begin{array}{r} 5854 \quad () \\ - 4585 \quad () \\ \hline 1269 \end{array}$$

$$\begin{array}{r} 585 \quad () \\ \times 6 \quad () \\ \hline 3510 \end{array}$$

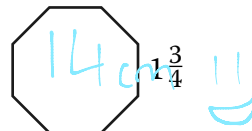
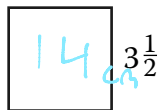
$$\begin{array}{r} 4585 \quad () \\ \times 7 \quad () \\ \hline 32095 \end{array}$$

Solve these problems.

1. The perimeter of each regular figure below is 13 cm. What is the length of the sides of each figure?



2. Find of the perimeter of the square and the regular octagon. Which has the greater perimeter?



Name: _____

Date: _____

Warm-Up

Do the arithmetic. Use check numbers.

$$\begin{array}{r} 7642 \quad () \\ + 2467 \quad () \\ \hline 10109 \end{array}$$

$$\begin{array}{r} 7642 \quad () \\ - 2467 \quad () \\ \hline 5175 \end{array}$$

$$\begin{array}{r} 764 \quad () \\ \times 8 \quad () \\ \hline \end{array}$$

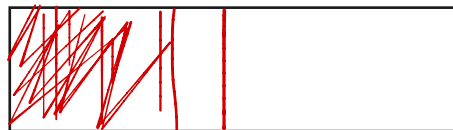
$$\begin{array}{r} 2467 \quad () \\ \times 4 \quad () \\ \hline 9868 \end{array}$$

1. Divide the rectangles by drawing vertical lines. Draw the lines freehand.

a. First find $\frac{1}{2}$ of the rectangle.
Then crosshatch $\frac{1}{3}$ of $\frac{1}{2}$.



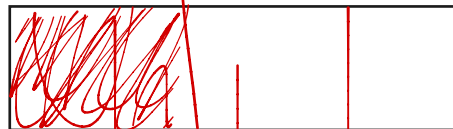
c. Find $\frac{1}{2}$ of the rectangle.
Then crosshatch $\frac{3}{4}$ of $\frac{1}{2}$.



b. First find $\frac{1}{3}$ of the rectangle.
Then crosshatch $\frac{1}{2}$ of $\frac{1}{3}$.

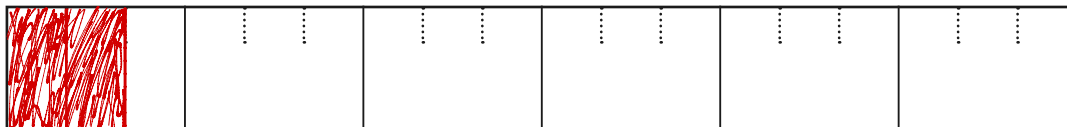


d. Find $\frac{3}{4}$ of the rectangle.
Then crosshatch $\frac{1}{2}$ of $\frac{3}{4}$.

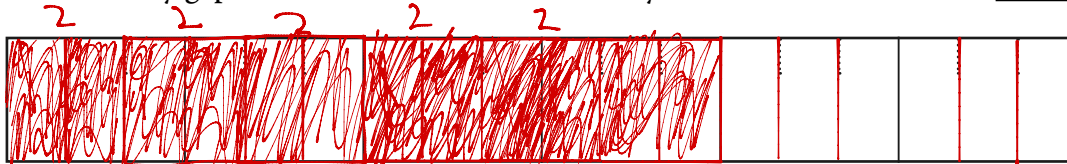


What pattern do you see? _____

2. There are six rectangles below. Crosshatch $\frac{2}{3}$ of 6. How many thirds are crosshatched? 2



Now let's find $\frac{2}{3} \times 6$ a different way. Crosshatch $\frac{2}{3}$ of a rectangle. Repeat six times. Do not leave any gaps between the thirds. How many thirds are crosshatched? 12



Name: _____

Date: _____

Warm-Up

Do the arithmetic. Use check numbers.

$$\begin{array}{r} 111 \\ 6374 \text{ ()} \\ + 4736 \text{ ()} \\ \hline 11,110 \end{array}$$

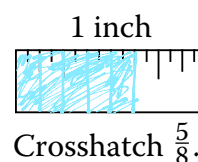
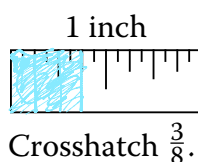
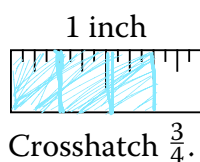
$$\begin{array}{r} 513614 \\ 6374 \text{ ()} \\ - 4736 \text{ ()} \\ \hline 1,638 \end{array}$$

$$\begin{array}{r} 12 \\ 637 \text{ ()} \\ \times 4 \text{ ()} \\ \hline 2548 \end{array}$$

$$\begin{array}{r} 524 \\ 4736 \text{ ()} \\ \times 8 \text{ ()} \\ \hline 37,888 \end{array}$$

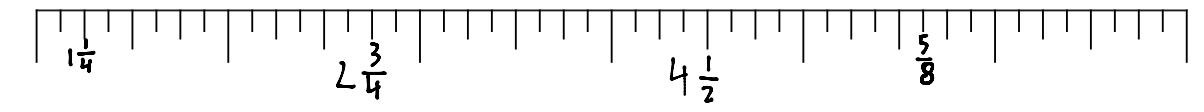
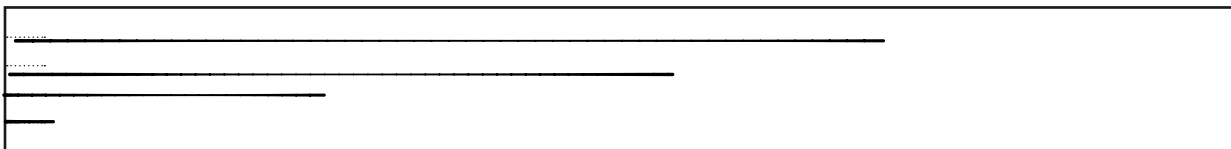
1. What fraction are these inches divided into? _____

Crosshatch the inch rectangles below.

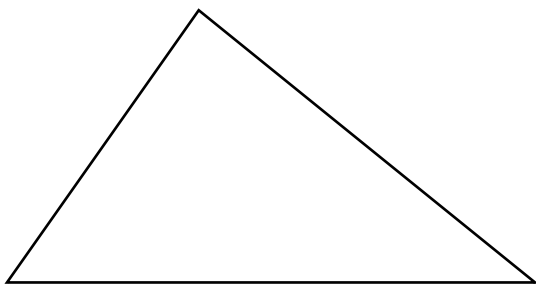


2. Write the numbers below the ruler to show the inches.

Draw lines inside the rectangle that are $1\frac{1}{4}$, $2\frac{3}{4}$, $4\frac{1}{2}$, and $5\frac{5}{8}$ inches long. Use the ruler below.



3. Use a ruler and find the perimeter of the two figures to the nearest eighth of an inch.



Handwritten notes: $1\frac{1}{4}$, $2\frac{3}{4}$, $4\frac{1}{2}$, $5\frac{5}{8}$

Name: _____

Date: _____

Write only the answers.

$$\begin{array}{r} 7400 \\ 317 \\ \hline 810 \end{array}$$

Write the answers.

$$389 + 78 = 467$$

$$61 + 939 = 1000$$

$$2 - 1\frac{1}{3} = \frac{2}{3}$$

$$\begin{array}{r} 389 \\ +78 \\ \hline \end{array}$$

Do the arithmetic. Use check numbers.

$$\begin{array}{r} 41212 \\ 7432 \text{ ()} \\ - 888 \text{ ()} \\ \hline 6544 \end{array}$$

$$\begin{array}{r} 453 \\ 7685 \text{ ()} \\ \times 6 \text{ ()} \\ \hline 46110 \end{array}$$

$$\begin{array}{r} 144 \\ 6369 \text{ ()} \\ \times 7 \text{ ()} \\ \hline 44583 \end{array}$$

Add 387 + 10,793.

$$\begin{array}{r} 1944 \\ + 972 \\ \hline 2916 \end{array}$$

Write >, <, or = on the lines.

$$\frac{1}{2} \text{ of } 4 = \frac{1}{2} \times 4$$

$$\frac{2}{5} < \frac{4}{5}$$

$$1 + \frac{4}{7} = 1\frac{4}{7}$$

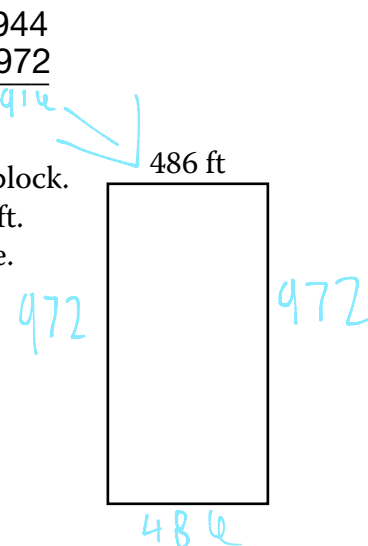
$$\frac{5}{6} > \frac{4}{5}$$

$$\frac{7}{10} < \frac{7}{8}$$

$$\frac{11}{8} = 1\frac{3}{8}$$

Solve the problem.

Willie walked around a rectangular block. The north side of the block was 486 ft. The west side was twice this distance. How far did Willie walk?



Circle the improper fractions.

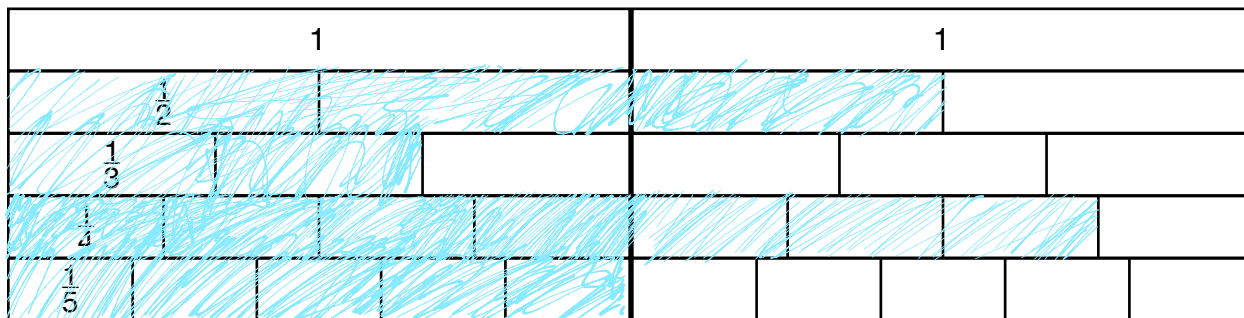
$\frac{9}{8}$ $\frac{7}{1}$ $\frac{2}{3}$ $\frac{6}{6}$ $\frac{12}{13}$ $\frac{5}{6}$

Put these fractions in order from least to greatest.

$\frac{5}{4}$ $\frac{7}{8}$ $\frac{3}{5}$ $\frac{1}{3}$ $\frac{17}{8}$ $\frac{1}{4}$

$\frac{1}{4}$ $\frac{1}{3}$ $\frac{3}{5}$ $\frac{7}{8}$ $\frac{5}{4}$ $\frac{17}{8}$

On the fraction charts below, crosshatch $1\frac{1}{2}$, $\frac{2}{3}$, $\frac{7}{4}$, and $\frac{5}{5}$.



Name: _____

Date: _____

Write only the answers.

$$\begin{array}{r} 3800 \\ 271 \\ \hline 720 \end{array}$$

Write the answers.

$576 + 85 = 661$

$73 + 927 = 1000$

$2 - 1\frac{1}{4} = \frac{3}{4}$

Do the arithmetic. Use check numbers.

$$\begin{array}{r} 5235 \\ 6345 \quad () \\ - 548 \quad () \\ \hline 5797 \end{array}$$

$$\begin{array}{r} 444 \\ 5867 \quad () \\ \times 7 \quad () \\ \hline 41069 \end{array}$$

$$\begin{array}{r} 525 \\ 7849 \quad () \\ \times 6 \quad () \\ \hline 47094 \end{array}$$

Add 268 + 23,564.

$268 + 23,564 = 23,832$

Write >, <, or = on the lines.

$\frac{1}{3} \times 6 = \frac{1}{3} \text{ of } 6$

$\frac{5}{8} > \frac{3}{8}$

$2 + \frac{5}{7} = 2\frac{5}{7}$

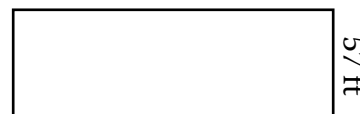
$\frac{7}{8} < \frac{8}{9}$

$\frac{3}{10} < \frac{3}{8}$

$\frac{13}{8} = 1\frac{5}{8}$

Solve the problem.

Matt's dog, Barky, ran around her pen. The east side of the pen was 57 ft. The south side was three times this distance. How far did Barky run?



$$\begin{array}{r} 2 \\ 57 \\ \times 3 \\ \hline 171 \end{array}$$

$$\begin{array}{r} 1 \\ 171 \\ \times 2 \\ \hline 342 \end{array}$$

$$\begin{array}{r} 1 \\ 57 \\ \times 2 \\ \hline 114 \end{array}$$

$$\begin{array}{r} 342 \\ + 114 \\ \hline 456 \end{array}$$

456

Circle the improper fractions.

$\frac{7}{8}$ $\frac{7}{3}$ $\frac{2}{1}$ $\frac{6}{6}$ $\frac{1}{5}$ $\frac{7}{6}$

Put these fractions in order from least to greatest.

$\frac{4}{4}$ $\frac{1}{8}$ $\frac{4}{7}$ $\frac{2}{5}$ $\frac{15}{8}$ $\frac{1}{6}$

$\frac{1}{8}$ $\frac{1}{6}$ $\frac{2}{5}$ $\frac{4}{7}$ $\frac{4}{4}$ $\frac{15}{8}$

On the fraction charts below, crosshatch $\frac{2}{2}$, $\frac{4}{3}$, $\frac{3}{4}$, and $\frac{7}{5}$.

