

Name: _____

Round the numbers to the nearest hundred. Check to make sure the answers are adequate.

Example:

$$486 + 539 = 995$$

(rounding)

$$486 \rightarrow 500$$

$$539 \rightarrow 500$$

So $500 + 500 = 1,000$
means 995 is adequate.



$$396 + 235$$

$$3,010 - 860$$

$$1,874 + 966$$

$$583 - 221$$

$$180 + 279 + 641$$

$$2,211 - 787$$

Name: _____

Use front-end estimation to make sure the answers are adequate.

Example:

$$221 \times 4 = 884$$

(front-end estimation)

$$\textcircled{2}21 \times 4$$



$$\text{So } 200 \times 4 = 800$$

means 884 is adequate.



$$187 \times 6$$

$$332 \times 4$$

$$127 \times 3$$

$$761 \times 4$$

$$489 \times 5$$

$$537 \times 2$$

Name: _____

Robert is giving away dimes at his younger brother's birthday party.

If he gives everyone 3 dimes, then he will have 63 dimes left over.

If he gives everyone 6 dimes, then he will have 42 dimes left over.

If he gives everyone 7 dimes, then he will have 35 dimes left over.

How many kids are at his younger brother's party?

Hint: He has 84 dimes.

Holly and Amy both had homework to solve ten 2-digit addition problems, like $518 + 573$. Holly's sheet said to solve them. Amy's sheet said to round each number to the nearest hundred and solve. Who do you think finished their sheet first and why?

Pam brought in a lot of mini cookies to class for her birthday to share among 15 kids.

If she gives everyone 4 mini cookies, then there will be 18 left.

If she gives everyone 5 mini cookies, then there will be 3 left.

How many mini cookies do you think she brought to class?

Pam not only wrote all the factors of 54, but she also added them up. The sum she found was 121. There was one problem. That sum is off by 1. Can you find the real sum?

Name: _____

Find the quotient using multiplication facts to make sure the answers are adequate.

Example:



$$80 \div 2 = 40$$

$$2 \times 10 = 20$$

$$2 \times 20 = 40$$

80 is close to 100.

$$\text{So } 100 \div 2 = 50$$

means 40 is adequate.



$$90 \div 2$$

$$65 \div 8$$

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$$82 \div 5$$

$$84 \div 6$$

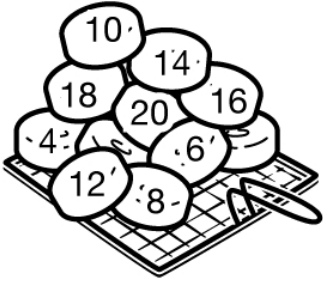
$$37 \div 2$$

$$56 \div 7$$

Name: _____

Matching Multiples

Oh muffins. I've gotten all of my doughnut orders mixed up. Can you draw a line to match each stack of doughnut multiples to the correct icing bowl number? Thanks a dozen!



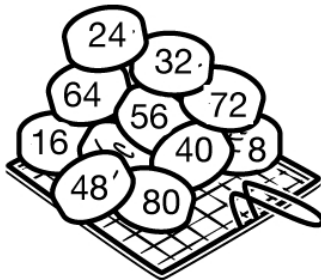
What is the lowest multiple that icing bowl 9 and 2 share?



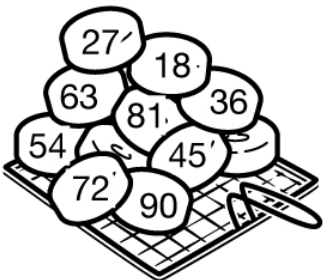
PREVIEW

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What is the lowest multiple that icing bowl 8 and 9 share?



What is the lowest multiple that icing bowl 2 and 8 share?

Name: _____

Use front-end estimation to make sure the answers are adequate.

Example:

$$9,732 - 6,541 = 3,191$$

(front-end estimation)

9,732

6,541



So $\textcircled{9},000 - \textcircled{6},000 = 3,000$
means 3,191 is adequate,



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$$8,652 + 4,327$$

$$4,538 - 3,899$$

$$5,331 + 2,869$$

$$7,689 - 5,437$$

Name: _____

$53 + 30 = \underline{\quad\quad\quad} + 2$

85

86

82

81

Use paper and pencil to answer.

The sum of 253 and 392 is _____.

Add using mental math.

$42 + 20 =$

113 - 68 gives the _____ of 113 and 68.

word form

product

place value

difference

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650

640

610

620

8,000

Round 237 to the nearest ten.

Round 437 to the nearest hundred.

Subtract using mental math.

$82 - 40 =$

Round 339 to the nearest hundred.

Name: _____

Round 51,991 to the nearest hundred.

Which is true?

3 is a common factor of 16 and 48.

5 is a common factor of 25 and 30.

6 is a common factor of 15 and 27.

Round 45 to the nearest ten.

60

40

140

50

The number 7,534 _____ to the nearest 1,000 is 8,000.

rounded

printed

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Which number has 8 as a factor?

82

32

11

33

Round 53,166 to the nearest thousand.

50,000

52,900

53,000

Which are factors of 12? (You can select more than one.)

There may be multiple answers.

9

11

4

3

5 and 2 are _____ numbers.

prime

encrypted

irrational

composite

Name: _____

Which is true?

7 is a common factor of 27.

3 is a common factor of 18.

5 is a common factor of 12.

Which number has 6 as a factor?

48

39

52

61

The number 7,576 rounded to the nearest _____ is 7,580.

100,000

10

100

What is the the fifth multiple of 9?

54

45

63

9

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Round 35,923 to the nearest hundred.

Which number has 7 as a factor?

21

22

76

18

Which number has 9 as a factor?

29

73

33

72

Which is true?

2 is a common factor of 16.

4 is a common factor of 14.

4 is a common factor of 21.

Name: _____

**FUN
BREAK!**

Play a game online!

edHelper.com/math-games.htm**I PLAYED
ONE
GAME****MY SCORE**

PREVIEW

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In the parking lot there are 13 vehicles. There are 3 SUVs. What fraction of the vehicles are not SUVs?

The number 41 is more than the number 6 by how much?

15 is a composite or a prime number?

What is the sum of 10 and 160?

$$597 + 9 =$$

How many hundreds are in the number 28,000?

Name: _____

Round these numbers to the nearest hundred and then put them in order:

17,036

7,055

5,044

14,165

Round these numbers to the nearest hundred and then put them in order:

18,166

15,074

3,055

7,036

PREVIEW

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Should you estimate by rounding each number to the nearest 1,000 or 100 in order to get the fastest answer? How much time will you save by your choice?

Two numbers:

Name: _____

Find the product of each. Use rounding (for the three-digit number) to make sure the answers are adequate.

Example:

$$287 \times 2 = 574$$

(rounding)

$$287 \rightarrow 300 \times 2 = 600$$

means 574 is adequate.



$$238 \times 2$$

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$$193 \times 3$$

$$508 \times 2$$

$$321 \times 4$$

$$488 \times 6$$

Name: _____

 Subtract  Estimate  Check Your Work 

Yeti's Ice Shop

Yeti started the month with 4014 cubes of ice.



At the end of the month Yeti had 2938 cubes of ice.

How many cubes of ice did Yeti sell?

4014
0000



Yeti started the month with 3621 cups of iced sea water.

Yeti started the month with 2011 sheets of ice.

At the end of the month Yeti had 1787 sheets of ice.

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- 3000

is close to my answer.



- _____

Use front end estimation to check your work.

- _____

My estimate is close to my answer.



Use front end estimation to check your work.

My estimate is close to my answer.

- _____



Yeti started the month with 5832 snow cones. (Cod flavored, yum!)

At the end of the month Yeti had 3188 snow cones.

How many snow cones did Yeti sell? _____

Use front end estimation to check your work. _____

My estimate is close to my answer.



What item was Yeti's biggest seller?

Name: _____

Morning! I'm Posie and I own *Posh Pastry*, a fancy doughnut shop. I have been up all night baking and icing for a special event. It's time to box up the doughnuts for delivery, but I'm very tired. Can you help me by finding the correct amount of doughnuts to put into each box?

Posh Pastry can NOT have any mistakes, so please use multiplication and rounding to check each box. Thanks a dozen!



87 **Chocolate Star** doughnuts

3 boxes



doughnuts
per box:

Is it correct?

Multiply your
answer by 3
to check your
work.

$\times 3$

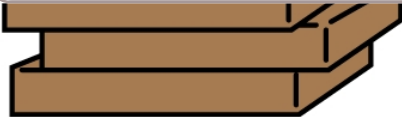
Is it close?

Round to the nearest tens
place, divide, and compare
your answer.

$$90 \div 3 =$$

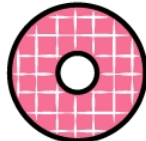
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92 **Strawberry Grid** doughnuts

4 boxes



doughnuts
per box:

Check your work:



Posie has 96 doughnuts. There are four different varieties. She has the same number of each doughnut. She wants each box to look the same. What are two ways she could box up the doughnuts?

Name: _____

I am the largest whole number that will round to 6,000 when you round to the nearest hundred.

I am a whole number. When rounded to the nearest thousand, the answer is 1000. The sum of my digits is 15. If you add 1500 to this number and then round the new number to

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I am the largest whole number that rounds to 240 when rounding to the nearest ten.

Name: _____

Use any of these digits. Cross off a digit after you use it. You do not need to use all of the numbers.

5**6****7****0****2****8**

The sum of these two 2-digit numbers is 138. Write the full equation.

Use any of these digits. Cross off a digit after you use it. You do not need to use all of the numbers.

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Use any of these digits. Cross off a digit after you use it. You do not need to use all of the numbers.

3**2****6****9****8**

Use the digits to make a 2-digit minus 2-digit subtraction equation. The difference between your numbers should be 13.

Name: _____

Sara and Rosa are bookworms. That means they have a lot of books! Together they have 45 books. Rosa has more books than Sara. In fact, Rosa has exactly twice the number of books that Sara has. How many books does Sara have? How many books does Rosa have?

Robot Sarah likes to be tricked. Show at least 5 different ways to make 6,900. One of your ways should be **WRONG** to trick Robot Sarah.

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Draw an area model to solve 58×8 .

Name: _____

Help! Emily was given the following numbers. She needs an estimate of the sum of these numbers as fast as possible, like in 20 seconds or so. What could she do?

48,557 18,249 18,719 18,428
18,468 18,339 48,487 18,198
18,679 18,718 18,627 18,159

Estimate the sum of 9,569 and 2,579 by first rounding each number to the nearest 100.

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practices dance every 3 days. They both practiced on Thursday together. When will be the next day they can practice together?

or, and greater than it.

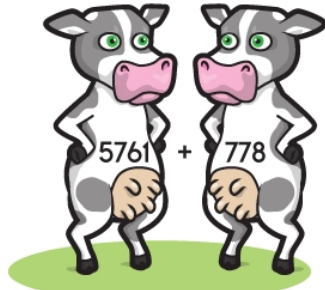
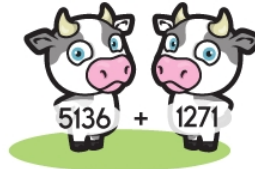
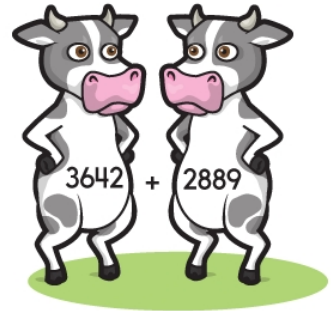
Name: _____

ESTIMATION:
Round
and Add



Well, howdy partner! Today we're roundin' up the cattle.

Could ya' help me by rounding to the nearest hundred, finding the sum and then connecting each pair of cows to the correct pen? Yee-haw! Much obliged.



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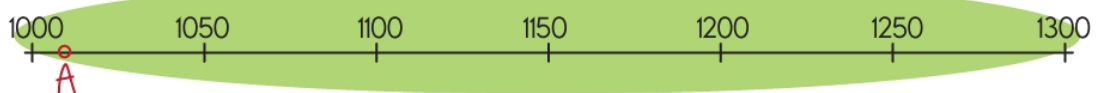
I reckon we better giddy up and get these muddy lil' dogies over to greener pasture!



Round each number to the nearest tens place. Estimate where to label each cow's letter on the number line.



					
<input checked="" type="checkbox"/> 1017	<input type="checkbox"/> 1068	<input type="checkbox"/> 1209	<input type="checkbox"/> 1036	<input type="checkbox"/> 1134	<input type="checkbox"/> 1285
<u>1020</u>	_____	_____	_____	_____	_____



Name: _____

Find the factors of each number.

Example:

$1 \times \underline{18} = 18$

$18 \quad 2 \times \underline{9} = 18$

$3 \times \underline{6} = 18$

Factors are 1, 2, 3, 6, 9, and 18.

$60 \quad 1 \times \underline{\quad} = 60$

$2 \times \underline{\quad} = 60$

$3 \times \underline{\quad} = 60$

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$\underline{\quad} \times \underline{\quad} = 72$

$\underline{\quad} \times \underline{\quad} = 72$

Factors are 1, , , , , and .

36

Factors are _____.

80

Factors are _____.

Name: _____

List the factors and then the composite numbers.

Example:

20 Factors are 1, 2, 4, 5, 10, and 20.
Because a composite number has more than 2 factors (1 and itself), 20 is a composite number.



15

53

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31

68

Composite numbers are: _____

How did you arrive at this conclusion? _____

Name: _____

Ready to make equations? There is a missing equation in each box.
Circle the numbers once you find it!

A

24	38	96
-	39	91 12
	59	13 58

Find a
subtraction fact.

B

86	45	85
-	73	7 12
	51	82 15

Find a
subtraction fact.

C

89	15	32
-	34	86 50
	39	14 45

Find a
subtraction fact.

Equations:

Write the equation facts you found.

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C	89	-		=	
---	----	---	--	---	--

$\begin{array}{r} 8 \\ 5 \\ + 10 \\ \hline \end{array}$	<p>You ask Jessica for the time. She says it is three minutes past twelve. Write the time on your digital clock:</p> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"> : </div>	$6 \times 8 = \underline{\quad}$ $8 \times 6 = \underline{\quad}$
$\begin{array}{r} 53 \\ - 33 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ - 46 \\ \hline \end{array}$	$\begin{array}{r} 68 \\ - 60 \\ \hline \end{array}$
$\begin{array}{r} 66 \\ - 37 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ + 19 \\ \hline \end{array}$	$\begin{array}{r} 66 \\ + 21 \\ \hline \end{array}$
$49 + 5 = \underline{\quad}$		

Name: _____

The product of three consecutive numbers is 2,184. What are the numbers?

The product of three consecutive numbers is 210. What are the numbers?

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Three consecutive numbers have a sum of 366. What are the numbers?

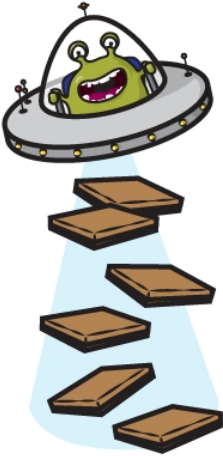
Name: _____

FINDING MULTIPLES

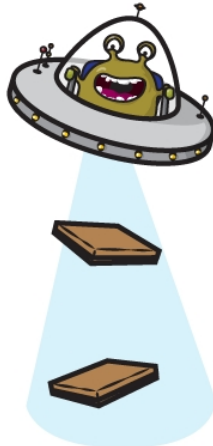


Greetings, Earthlings. We come in peace... in search of PEACE-A! Get it? Pizza?! We are getting ready for an out-of-this-world pizza party back home. We each need to return with the same amount of pizza, but unfortunately we haven't all found the same amount. Luckily, we aliens can use our multiplication powers on food! What

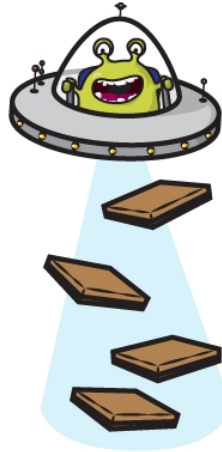
is the lowest number that we could all return with? Hey, we're not greedy!



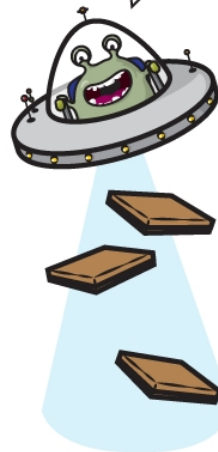
multiples of:



multiples of:



multiples of:



multiples of:

PREVIEW

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Our babies come in pods, so we aliens have very large families. In each family it is always the same. If you get a pod with three babies, you always get a pod with three babies. Match each family to the correct size pod.



Name: _____

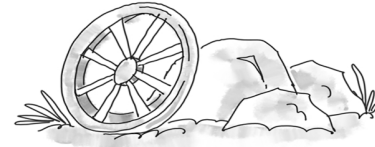
List the factors and then the prime numbers.

Example:

11

Factors are 1 and 11.

Because a prime number only has 2 factors - a 1 and itself - 11 is a prime number.



71

34

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27

10

Prime numbers are: _____

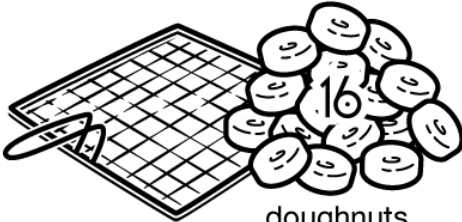
How did you arrive at this conclusion? _____

Name: _____

Factors

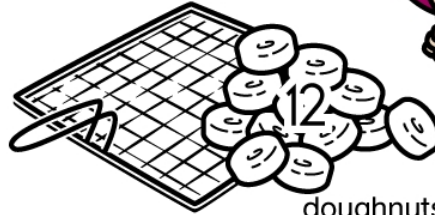


Hey there! I'm Posie and I own *Posh Pastry*, a fancy doughnut shop. I am busy making some of my most posh doughnuts yet, and I could use some help. Could you find the factors for each stack of doughnuts? That way I can choose the best option for getting them into the fryer baskets. Thanks a dozen!



baskets doughnuts
per basket total
doughnuts

1	16	16
2		16

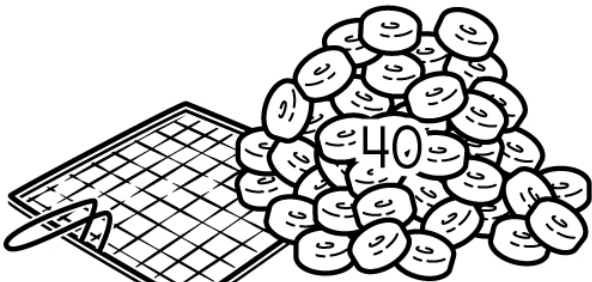


baskets doughnuts
per basket total
doughnuts

		12

PREVIEW

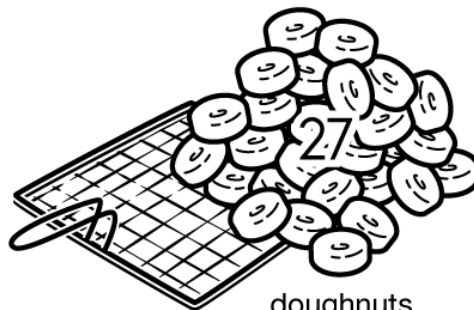
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baskets doughnuts
per basket total
doughnuts

		40
		40
		40
		40

The factors of 40 are:



baskets doughnuts
per basket total
doughnuts

		27
		27

The factors of 27 are:

Name: _____

I am the smallest whole number that will round to 1,000 when you round to the nearest thousand.

I am the smallest whole number that rounds to 200 when rounding to the nearest ten.

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I am a whole number. When rounded to the nearest thousand, the answer is 2000. The sum of my digits is 18. If you add 2500 to this number and then round the new number to the nearest thousand, the answer becomes 3000. What number am I?



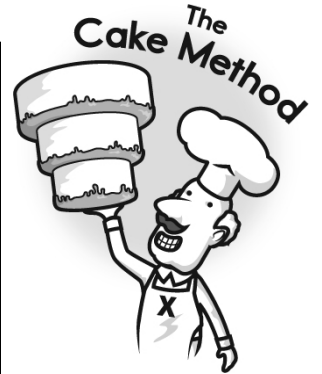
Name: _____

Get a fidget spinner! Spin it.

I needed to spin _____ time(s) to finish.

Find the GCF using the Birthday Cake method.

<div style="margin-bottom: 10px;">4 120 132</div> <div style="margin-bottom: 10px;">3 30 33</div> <div style="margin-bottom: 10px;">10 11</div> <div>GCF: $3 \times 2 \times 2 = 12$</div>	<div style="margin-bottom: 10px;">3 48 54</div> <div style="margin-bottom: 10px;">2 16 18</div> <div>GCF: _____</div>
---	---



5 40 25	4 20 16	5 35 30
-------------	-------------	-------------

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<div style="margin-bottom: 10px;">45 70</div> <div>GCF: _____</div>	<div style="margin-bottom: 10px;">20 56</div> <div>GCF: _____</div>	<div style="margin-bottom: 10px;">42 57</div> <div>GCF: _____</div>
---	---	---



Name: _____

Spin again.

I needed to spin _____ time(s) to finish.

Find the GCF using the Birthday Cake method.

3	30 21 15 10 7 5	5	60 55 50
GCF: 3		GCF: _____	
4	48 28 20	2	70 50 100
GCF: _____		GCF: _____	

PREVIEW

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648 540 612	102 66 30
GCF: _____	GCF: _____

Name: _____

Circle the fraction that is smaller.

$$\frac{7}{9} \quad \text{or} \quad \frac{24}{27}$$

Now draw both fractions on a number line

to show that your answer is correct:

David is taking a 24-hour walk challenge. He is trying to stay awake for 24 hours and plans to walk as far as he can. Each hour he plans to sit and rest for 4 minutes. If he is able to

PREVIEW

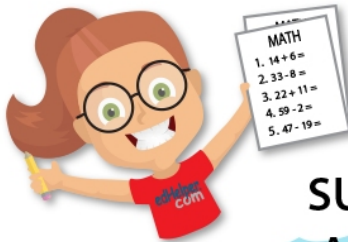
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Hunter tried to write out the number for 63,870. He wrote sixty-three eight hundred seventy. Is anything wrong?

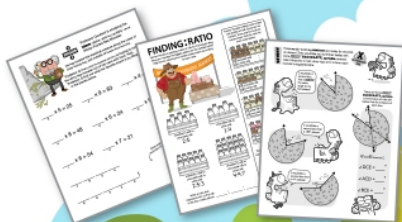
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1 2 3

More science!

New ideas!



\times
 $\times =$
 $- \div$
 $< - >$

More puzzles!





Name: _____

$$12 = \underline{\quad\quad} - 5$$

$$\underline{\quad\quad} = 36 - 13$$

$$17 = \underline{\quad\quad} - 10$$

Show what 4×6 looks like by drawing an array. What is the answer?

12, 14, 16, 18, _____, 22

Find a clock. What time is it right now?

85, _____, 95, 100, 105,
110, 115

Name: _____

Ava can't find her phone, so she is using an old fashioned map to see how far away two cities are. She measured that they are 7 centimeters apart. If the scale says that 1 cm = 10 kilometers, then what is the real distance?

Anne likes to draw triangles, but isosceles triangles are her favorite.

"They are so cool," she explains. "They have two equal sides and two equal angles. After I draw the triangle, I write the angle that is the same. Can you guess the third angle?"

She drew a yellow triangle and wrote 22° . She drew a blue triangle and wrote 37° . She drew a purple triangle and wrote 43° . What is the third angle for each of her triangles?

Jessica was so into a book. She finally finished! She then spent 3 times as long playing a game on her phone as she did reading. Jessica spent a total of 136 minutes in her room reading and playing the game. For how long did Jessica read?