3rd Grade Math: Worksheets & Topics

Topics include rounding numbers, area, patterns, fractions, multiplications, long division, word problems, and more.

I. Quick calculations

A)
$$16-7=$$

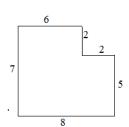
$$34 - 21 =$$

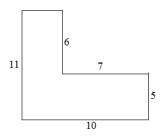
B)
$$7 \times 3 =$$

$$5 \times 9 =$$

II. Find the area and perimeter of the figures







III. Word Problems

- A) Matt's scores in math so far are 24, 30, and 39. What is his average?
- B) Tina bought a shirt at the store that cost \$25. If the sales tax is 10%, how much did she spend?
- C) Tom the cat is 2 feet tall, and Jerry the cat is 30 inches tall. How much taller is Jerry?
- D) Mark arrives to school at 11:00am. If it took 34 minutes to walk to school, what time did he leave home?

IV. Rounding numbers

A) 2345: round to the nearest 100s

B) 21,456,879: round to the nearest millions

C) 23.87: round to the nearest tenth

D) 1436.48: round to the nearest 10s

Fill in the blanks:

II. Rounding Numbers

Round the following to the nearest place:

III. Multiplication/Division

Fill in the blanks:

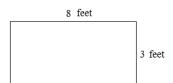
IV. Word Problems

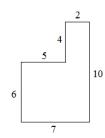
Answer the following:

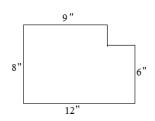
- A library room has 7 shelves containing history books.
 If each shelf has 10 books, how any books are in the room?
- 2) Jim has \$10 to spend on snacks. If each candy bar cost \$2, how many candy bars can he buy?
- 3) An sports arena can hold 12,355 fans. If the team sells 11,245 tickets, how many empty seats will remain on game day?

V. Area and Perimeter

Find the area and perimeter of each shape:







1) How many stars?

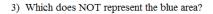
	☆ ☆ ☆ ☆	☆ ☆ ☆
a) 4	☆ ☆ ☆ ☆ -	☆ ☆ 〓
b) 6 c) 8	☆ ☆ ☆ ☆	☆
d) 18		

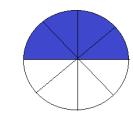
2) Which equation matches the count of triangles?



b) 6 x 4 c) 8 + 3 d) 12 ÷ 2

a) 24 - 6





a) 1/2b) 2/4c) 3/5

d) 4/8

II. Number sequences

- 1) Which numbers are missing? 23, ____, 33, 38, ____,
 - a) 28, 43, 48 b) 28, 43, 53 c) 28, 48, 58 d) 28, 48, 53
- 2) Which numbers are missing? 44, _____, ____, 35, 32, _____

a) 40, 38, 30 b) 40, 37, 29 c) 41, 38, 29

d) 41, 37, 30

III. Word Problems

 John has \$4.50 in his pocket. If he buys a soda for \$1.50 and a snack bar for \$.80, how much money does he have left?

a) \$1.80

b) \$2.00

c) \$2.20

d) \$2.30

2) Bill works 8 hours each day. How many minutes does he work every day?

a) 48 minutes

b) 240 minutes

c) 480 minutes

d) 640 minutes

- 1) 34 + ____ = 91
 - a) 55 b) 57
 - c) 63
 - d) 67
- 2) 5678 rounded to the nearest 100s place is
 - a) 5000
 - b) 5600
 - c) 5680
 - d) 5700
- 3) 11 x ____ = 132

 - a) 11 b) 12
 - c) 121
 - d) 143
- 4) A teacher brings 45 small cookies to share equally in school. If the class has 4 boys and 5 girls, how many cookies will each student get?

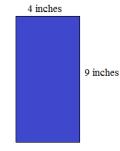
 - a) 3 b) 5 c) 9
 - d) 10
- 5) The area of the blue rectangle is



- b) 26 square inches
- c) 36 square inches
- d) 49 square inches
- 6) The perimeter of the blue rectangle is



- b) 26 square inches
- c) 36 square inches
- d) 49 square inches



- 7) A toy costs 14 dollars, plus 2 dollars for tax and shipping. If you have a 4 dollar off discount coupon, how much does the toy cost you?
 - a) 8 dollars
 - b) 12 dollars
 - c) 18 dollars
 - d) 20 dollars
- 8) In the number $\,4567$, the _____ is in the hundreds place.

 - b) 5
 - c) 6
 - d) 7

Long Division Word Problems

1)	A school has 2132 students. If each of the 4 grades has the same number of students, how many are in each grade?
2)	A dock has 6455 pounds of fish. If they are loaded equally onto 5 trucks, how much will each truck carry?
3)	A toy store has 4674 marbles. If equal amounts are placed in 6 bins, how many marbles are in each bin?
*	*Remainders:
	A baker makes cookies every morning. Then, he places them into 8-count boxes. If he has any left-overs, he gives the extras to his dog Chip. If he baked 345 cookies, how many did Chip the dog get?
5)	A banquet hall uses tables that seat 8 people. If a wedding reception has 301 people, how many tables will they need? If each table fills all 8 seats, how many people will sit in the remaining table?

				_
Long	Division	Word	Prob	lems

Dong Brision Word Troubing
6) 8 friends split a lottery jackpot of \$2,643,800. How much did each person win?
7) A tourist goes 2385 miles in 9 days. On average, how far did he travel per day?
8) Last season, a football player gained 1876 yards. If he averaged 4 yards per carry, how many carries did he have?
Find the average (or "mean") of the following 3 numbers: 2110, 4576, and 3775.
(Note: the 'average' of a set is the sum of the elements divided by the number of elements)
10) 'A wordless question': 23756 _
10) 'A wordless question': $\frac{23756}{4}$ =

Multiplication practice and applications

I. Table Values

a) $3 \times 6 =$

e) $14 \times 10 =$

i) $2 \times 12 =$

b) $10 \times 4 =$

f) $5 \times 11 =$

i) 5 x 8 =

c) $8 \times 8 =$

g) $7 \times 9 =$

k) $3 \times 9 =$

d) $4 \times 7 =$

h) $6 \times 6 =$

1) 11 x 7 =

II. Interpreting diagrams

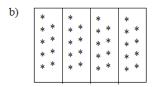
a) & & &

& & &

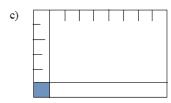
How many groups of & sets are there?

& & &

& & &



How many "snowflakes" are in the image?



The corner square is "one square unit"... How many square units is the entire figure?

III. Word Problems

a) A school cafeteria has 8 rows of tables. If each row contains 7 tables, how many tables are there?

Extra Credit: If each table seats 6 students, how many students can sit in the cafeteria?

- b) A restaurant charges \$7.50 per sandwich and \$2.00 per soft drink. If a family buys 4 sandwiches and 3 soft drinks, how much does it cost?
- c) The perimeter of a square is 36 square inches. What is the area of the square?

What's Next?...

Select the next word or object in the sequence... Then, explain the pattern...

1)







?

The next object is a) book

b) duck

c) girl

d) cat

2) Frog \Longrightarrow Jump

Kangeroo ⊏> Hop

Fish => ???

The best comparison is

- a) fin
- b) water
- c) swim
- d) underwater

3) cherry

lemon

orange

Which should join this group?

- a) grape
- b) flavor
- c) red
- d) ice

4)







?

Which object fits in the group? Why?

- a) gift
- b) balloon
- c) cart
- d) egg

5)







?

Which symbol fits?

- a) ÷
- b) %
- c) \$
- d) ()

6)







?

a) boat

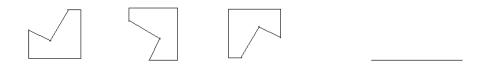
- b) parachute
- c) ferris wheel
- d) block

Sketch the next....

Fill in the empty box... Then, explain the pattern...

1) 2) 3) 4) 5) 6) 7)

Draw the next shape...





ANSWERS-→

I. Quick calculations

A)
$$16-7=9$$

$$18 - 9 = 9$$

$$34 - 21 = 13$$

$$71 - 28 = 43$$

B)
$$7 \times 3 = 21$$

$$8 \times 10 = 80$$

$$5 \times 9 = 45$$

$$8 \times 8 = 64$$

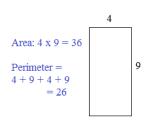
C)
$$15 \div 3 = 5$$

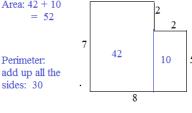
$$60 \div 6 = 10$$

$$32 \div 4 = 8$$

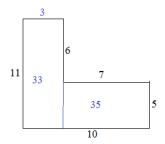
$$63 \div 7 = 9$$

II. Find the area and perimeter of the figures









III. Word Problems

A) Matt's scores in math so far are 24, 30, and 39. What is his average?

$$24 + 30 + 39 = 93$$
 Then, 93 divided by $3 = 31$

B) Tina bought a shirt at the store that cost \$25. If the sales tax is 10%, how much did she spend?

C) Tom the cat is 2 feet tall, and Jerry the cat is 30 inches tall. How much taller is Jerry?

D) Mark arrives to school at 11:00am. If it took 34 minutes to walk to school, what time did he leave home?

IV. Rounding numbers

A) 2345: round to the nearest 100s

2300

B) 21,456,879: round to the nearest millions

21,000,000

C) 23.87: round to the nearest tenth

23.9

D) 1436.48: round to the nearest 10s

1440.00

Fill in the blanks:

1)
$$231 + \underline{245} = 476$$

2)
$$432 - 375 = 57$$

II. Rounding Numbers

Round the following to the nearest place:

- 1) 73 10's
- 10's 2) 132
- 130

70

400

600

- 3) 357 100's
- 4) 642 100's

6) 23,456

13.46 6.51

6.95

- thousand
- hundreds 7) 8002

note: 3 + 11 = 14, so the answer should be around 14 or 15... Make sure decimal is in correct place!

5) 2.367 tenth

4) 2.34 + 1.46 = 3.80

5) 3.76 + 11.6 = 15.36

6) 13.46 - 6.95 = 6.51

- 8000

2.4

- 8) 123.456 hundredth
- 123,46

23,000

III. Multiplication/Division

Fill in the blanks:

1) 6 x 8 =
$$\frac{48}{}$$

2) 3 x
$$\underline{}$$
 = 15

4) 21
$$\frac{1}{4}$$
 3 = 7

note: $6 \times 2 = 12$.. then, add a zero

notice: $10 \times 14 = 140$

$$1 \times 14 = 14$$

so, $11 \times 14 = 154$

8) 13 x
$$20 = 260$$

IV. Word Problems

Answer the following:

- 1) A library room has 7 shelves containing history books. If each shelf has 10 books, how any books are in the room?
- multiplication: $7 \times 10 = 70$
- Step 1: Identify the operation Step 2: Set up the equation
- Step 3: Solve
- Step 4: Check work (is the answer reasonable?!!?)

- 2) Jim has \$10 to spend on snacks. If each candy bar cost \$2, how many candy bars can he buy?
- 3) An sports arena can hold 12,355 fans. If the team sells 11,245

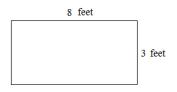
division: 10/2 = 5 candy bars

tickets, how many empty seats will remain on game day?

subtraction: 12,355 - 11,245 = 1,110 empty seats

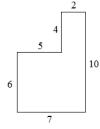
V. Area and Perimeter

Find the area and perimeter of each shape:



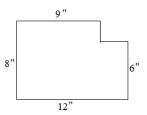
perimeter: 8 + 3 + 8 + 3 = 22 feet

area: 8 feet x 3 feet = 24 square feet



perimeter: 2 + 4 + 5 + 6 + 7 + 10 = 34 units

area: 50 square units



perimeter: 8 + 9 + 2 + 3 + 6 + 12 = 40 inches

area: 9 inches x 8 inches + 3 inches x 6 inches

72 + 18 = 90 square inches

1) How many stars?

 $\triangle \triangle \triangle \triangle$

 $4 \times 3 = 12$

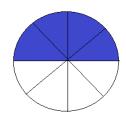
2) Which equation matches the count of triangles?



6 sets x 4 triangles each = 24

3) Which does NOT represent the blue area?





1/2 = 2/4 = 4/8

II. Number sequences

1) Which numbers are missing? 23, 28, 33, 38, 43, 48



2) Which numbers are missing? 44, 41 , 38 , 35, 32, 29

III. Word Problems

1) John has \$4.50 in his pocket. If he buys a soda for \$1.50 and a snack bar for \$.80, how much money does he have left?

a) \$1.80 b) \$2.00 c) \$2.20 d) \$2.30

$$4.50 - 1.50 = 3.00$$

then, 3.00 - .80 = 2.20

2) Bill works 8 hours each day. How many minutes does he work every day?

a) 48 minutes

b) 240 minutes

c) 480 minutes

8 hours x 60 minutes/hour = 480 minutes

d) 640 minutes

a) 55 b) 57	91	minus	34	equals	57
c) 63 d) 67					

2) 5678 rounded to the nearest 100s place is

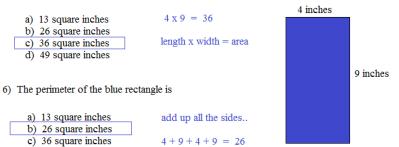
a) 5000 b) 5600 c) 5680 d) 5700	The hundreds place is 6, so either round up or round down In this case, round up!
--	---

a) 11	$11 \times 11 = 121$
b) 12	12 :- 45 45
c) 121	so, 12 is the only other possiblity
d) 143	

4) A teacher brings 45 small cookies to share equally in school. If the class has 4 boys and 5 girls, how many cookies will each student get?

5) The area of the blue rectangle is

d) 49 square inches



7) A toy costs 14 dollars, plus 2 dollars for tax and shipping.

If you have a 4 dollar off discount coupon, how much does the toy cost you?

a) 8 dollars	1.4	1	2		10	41	10	
b) 12 dollars	14	pius	2	=	12	tnen,	12 minus 4	= 8
c) 18 dollarsd) 20 dollars								

8) In the number 4567, the _____ is in the hundreds place.

a)	4	
b)	5	
c)	6	
d)	7	

Long Division Word Problems

1) A school has 2132 students. If each of the 4 grades has the same number of students, how many are in each grade?

533

2) A dock has 6455 pounds of fish. If they are loaded equally onto 5 trucks, how much will each truck carry?

1291

3) A toy store has 4674 marbles. If equal amounts are placed in 6 bins, how many marbles are in each bin?

779

	0533
4	2132
	- 0
	21
-	- 20
	13
	-12
	12
	-12
	0

$$\begin{array}{r}
1291 \\
5 \overline{\smash)6455} \\
-5 \overline{\smash)14} \\
-10 \overline{\smash)45} \\
-45 \overline{\smash)05} \\
-5 \overline{\smash)0}
\end{array}$$

0779

SOLUTIONS

Start with "thousands" place (left to right)..
Divide...
We get 0...
Move to "hundreds" place...
Divide... 4 into 21..
"Subtract" 20 from 21...
Bring down next place ("tens")
Divide... (Keep track at the top)...
"Deduct"...

(going left to right)	
Start with the "thousands" place	6
Divide Keep track at the top	1
Deduct	-5
Move to the "hundreds" place	
(Bring down the next place)	14
Divide Keep track at the top	2
Deduct	-10
Move to the "tens" place	
(Bring down the next place)	45
Divide Keep track at the top	9
Deduct	-45
(Bring down the last place)	05
Divide Keep track at the top	1
Deduct	-5

*	*Remainders:
4)	A baker makes cookies every morning. Then, he places them into 8-count boxes. If he has any left-overs, he gives the extras to his dog Chip. If he baked 345 cookies,
	how many did Chip the dog get?

The baker made 43 boxes of cookies... And, Chip the dog got 1 cookie!

5) A banquet hall uses tables that seat 8 people. If a wedding reception has 301 people, how many tables will they need? If each table fills all 8 seats, how many people will sit in the remaining table?

The wedding reception will require 37 full tables PLUS 1 table with 5 guests...

38 total tables..

$$\begin{array}{c|c}
0 & 43 \\
\hline
8 & 345 \\
-0 & 34 \\
-32 & 25 \\
-24 & 1
\end{array}$$

nathplane.com

6) 8 friends split a lottery jackpot of \$2,643,800. How much did each person win?

Total: 2,643,800

Divided: 8

Each friend gets \$330,475

7) A tourist goes 2385 miles in 9 days. On average, how far did he travel per day?

The player had 469 carries last season

$$\begin{array}{r}
 330475 \\
8 2643800 \\
 -24 \\
 \hline
 24 \\
 -24 \\
 \hline
 038 \\
 -32 \\
 \hline
 60 \\
 -56 \\
 \hline
 40 \\
 -40 \\
 \hline
 0
\end{array}$$

9) Find the average (or "mean") of the following 3 numbers: 2110, 4576, and 3775.

(Note: the 'average' of a set is the sum of the elements divided by the number of elements)

The mean or average of the 3 numbers is 3487

10) 'A wordless question': $\frac{23756}{4} = 5939$

First, find the sum of the 3 numbers:

Then, divide by the number of elements (3):

$$\begin{array}{r}
 3487 \\
 \hline
 1 0461 \\
 \underline{-9} \\
 14 \\
 \underline{-12} \\
 26 \\
 \underline{-24} \\
 \underline{-21} \\
 0
\end{array}$$

Multiplication practice and applications

I. Table Values

a)
$$3 \times 6 = 18$$

c)
$$8 \times 8 = 64$$

d)
$$4 \times 7 = 28$$

e)
$$14 \times 10 = 140$$
 add a zero to 14

f)
$$5 \times 11 = 55$$
 double 5's

g)
$$7 \times 9 = 6$$

h)
$$6 \times 6 = 36$$

i)
$$2 \times 12 = 24$$

j)
$$5 \times 8 = 40$$

k)
$$3 \times 9 = 27$$

I)
$$11 \times 7 = 77$$
 double 7's

II. Interpreting diagrams

& & &

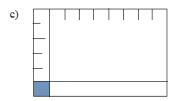
How many groups of & sets are there?

$$4 \times 3 = 12 \text{ total}$$

How many "snowflakes" are in the image?

There are 9 'snowflakes' in each pane...

since there are 4 panes, there are
$$4 \times 9 = 36$$
 snowflakes



The corner square is "one square unit"... How many square units is the entire figure?

Since there are 6 rows and 9 columns, then there are 6 x 9 = $\frac{9}{54}$ square units

III. Word Problems

a) A school cafeteria has 8 rows of tables. If each row contains 7 tables, how many tables are there?

$$8 \times 7 = 56 \text{ tables}$$

Extra Credit: If each table seats 6 students, how many students can sit in the cafeteria?

$$6 \times 56 = 336$$
 $6 \times 50 = 300$

336

$$+ 6 \times 6 = 36$$

b) A restaurant charges \$7.50 per sandwich and \$2.00 per soft drink. If a family buys 4 sandwiches and 3 soft drinks, how much does it cost?

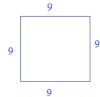
$$4 \times 7.5 = 15$$

$$3 \times 2 = 6$$

total \$21.00

c) The perimeter of a square is 36 square inches. What is the area of the square?

36 divided by 4 equals 9



What's Next?... SOLUTIONS

Select the next word or object in the sequence... Then, explain the pattern...

1)







?

The next object is a) book

b) duck

Apple, Ball, Car

c) girl d) cat

D...

Frog => Jump

Kangeroo \Longrightarrow Hop

Fish => ???

The best comparison is

a) fin

b) water

c) swim

d) underwater

The actions of each...

a frog jumps, kangeroo hops, and fish swim

3) cherry

lemon

orange

Which should join this group?

a) grape

b) flavor

c) red

d) ice

flavors or fruits...

Therefore, grape should join the group...

4)







?

Which object fits in the group? Why?

a) gift

bird bear

b) balloon c) cart

box

d) egg

balloon... all b's...

5)







?

Which symbol fits?

a) ÷

a) division symbol

b) %

all are operations:

c) \$

addition, subtraction, and multiplication

d) ()

6)







?

a) boat

b) parachute

all are wheels or have wheels...

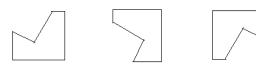
c) ferris wheel

d) block

Fill in the empty box... Then, explain the pattern...

1)					rotating quarter turn clockwise
2)					upper left corner subtract 1 line lower right corner add 1 line
3)					rotating quarter turn counterclockwise
4)	1 2	2	3 6	4 8	upper left corner add 1 lower right corner add 2 upper right/lower left corners alternate red and white
5)					add 1 side to each polygon
6)					each "clock arm" is rotating clockwise around the square
7)				or	1, 1/2, 1/4, 1/8

Draw the next shape...

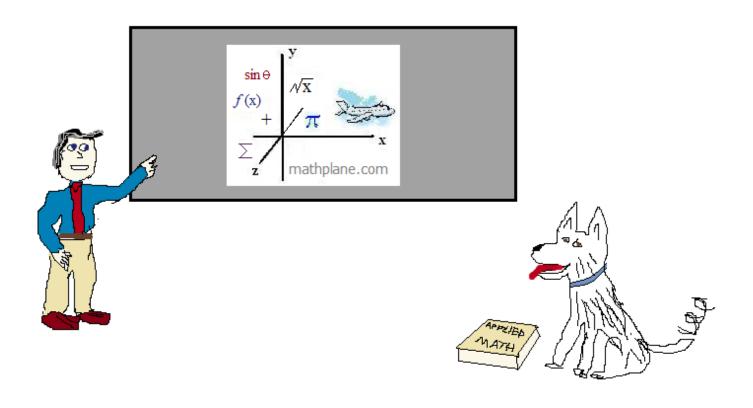




rotating 90 degrees clockwise around the center Thanks for visiting. (Hope it helps!)

If you have questions, suggestions, or requests, let us know.

Enjoy!



Also, Mathplane *Express* for mobile and tablets at Mathplane.ORG And, Mathplane stores at TES and TeachersPayTeachers