school Math 3. What did we learn this year?





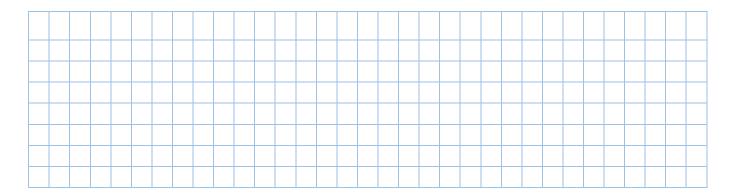
TIME your work: Start:_____ Finish:_____ Total time spent:____

Calculate: Please look carefully at the signs and try to figure out the easiest way to do it!



c)
$$2,492 \div 7 =$$

d)
$$325 \times 42 =$$



Convert the following measurements. 2

$$3 \text{ m} 5 \text{dm} 6 \text{ cm} = \underline{\hspace{1cm}} \text{cm}$$

$$3m 6 cm =$$
____ cm

$$325 \text{ cm} = \underline{\qquad} \text{m} \underline{\qquad} \text{cm} \qquad 56 \text{ cm} = \underline{\qquad} \text{dm} \underline{\qquad} \text{cm}$$

$$56 \text{ cm} = \underline{\qquad} \text{dm} \underline{\qquad} \text{cm}$$

Calculate (simplify to the lowest term where possible) 3

$$\frac{23}{50} - \frac{13}{50} =$$

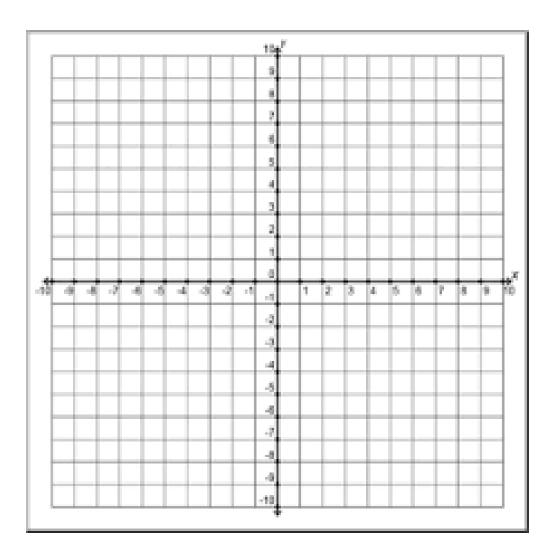
$$\frac{23}{50} - \frac{13}{50} = \frac{24}{100} + \frac{6}{100} = \frac{30}{75} - \frac{5}{75} =$$

$$\frac{30}{75} - \frac{5}{75} =$$

On the coordinate plane below, mark the points with the following coordinates and connect them. Color the quadrilateral you get with any color.

$$A(0,-2)$$

$$C(7, -2)$$



5

Insert the missing fraction:

a) _____ +
$$\frac{1}{3}$$
 = $1\frac{2}{3}$

b)
$$\frac{1}{3} + \underline{\hspace{1cm}} = 2\frac{2}{3}$$

a) _____ +
$$\frac{1}{3}$$
 = $1\frac{2}{3}$ b) $\frac{1}{3}$ + ____ = $2\frac{2}{3}$ c) $\frac{3}{8}$ + ____ = $3\frac{5}{8}$

6

Write down the mathematical expressions to solve the problems:

- a) There are a total of 35 oranges packed in the 5 identical bags.
 - How many oranges are in *one* bag? _____
 - How many oranges will be in 10 such bags?
- b) There are x oranges packed in 6 identical bags.
 - How many oranges are in *one* bag?
 - How many oranges will be in 7 such bags?_____
- c) There are 20 oranges packed in y identical bags.
 - How many oranges are in *one* bag? _____
 - How many oranges will be in **w** such bags?_____
- d) A snail moves along the cable 9 meters a day.
 - How much will it move in 12 days?_____
 - How many days will it take the snail to move 279 meters?_____

7

Calculate using the correct order of operations:

a)
$$9 + 5 \div (8 - 3) \times 2 =$$

b)
$$14 + 3(4 - 6 \div 3) =$$

8

Open parenthesis and simplify where possible:

a)
$$6(3+a)-(a+b-c)=$$

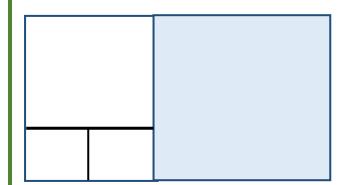
b)
$$3(c+d)+(d-c)=$$

c)
$$25 - 5(w + v - z - y) =$$

Final Test

9

The rectangle below is divided into 4 squares. Find a perimeter and an area of the big rectangle, if the side of the shaded square is 6cm. Don't forget the units of measurements.



 $P = \underline{\hspace{1cm}}$

A = _____

Solve equations, make sure you check your results!

10

$$23 + \mathbf{y} = 34$$

$$x - 63 = 127$$

$$35 + z \times 5 = 60$$

Check: _____

Check: _____

Check:_____

11

a) Use a ruler and draw:

 \circ Draw a straight line \overrightarrow{AD} .

o Draw a line segment $\overline{\textit{CB}}$.

 \circ Label the intersection \emph{K} .

o Draw a ray \overrightarrow{KE}

b) Make a right-angle template.

Using a template check:

- Is angle ∠CKE obtuse? (YES, NO)

- Is angle ∠CKB acute? (YES, NO)

c) Use protractor to measure angles:

В

D

A

_

BONUS PROBLEMS

Do them only if you have time after you finished and checked all the problems on the previous pages!

12*

How can you simplify the following? Remember the orders of operations!

- 1) $6(3 + a) + 90 \div 10 + a =$
- 2) 4 × 7 + 2(4 a) =_____
- 3) 10a + 2(a + b) + 20(b a) =

b = 7m

4) 35 - 3(10 - z) + (z - 5)=_____

13*

Find area or side of the rectangle.

a = 6cm

b= _____

 $A = 42cm^2$

b=?

cn

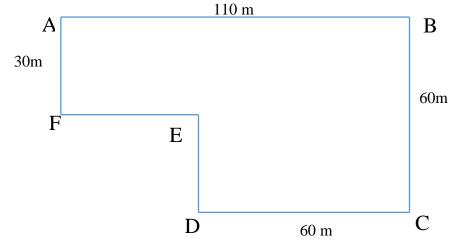
a = 9m

 $A = ? m^2$

A=____

14*

Find the perimeter and the area of the following figure, if you know some of the sides:



P=____

A=____