Math 3. What did we learn this year?

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

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

a) 2,501 + 4,280 + 499 =

b) 4,302 + 870 - 301=

c) 2,492 ÷ 7 =

d) 325 × 42 =

2 Convert the following measurements.

3 m 5dm 6 cm = _____ cm

3m 6 cm = _____ cm

325 cm = ____ m ____dm ____ cm

56 cm = ___ dm ___ cm

3 Calculate (simplify to the lowest term where possible)

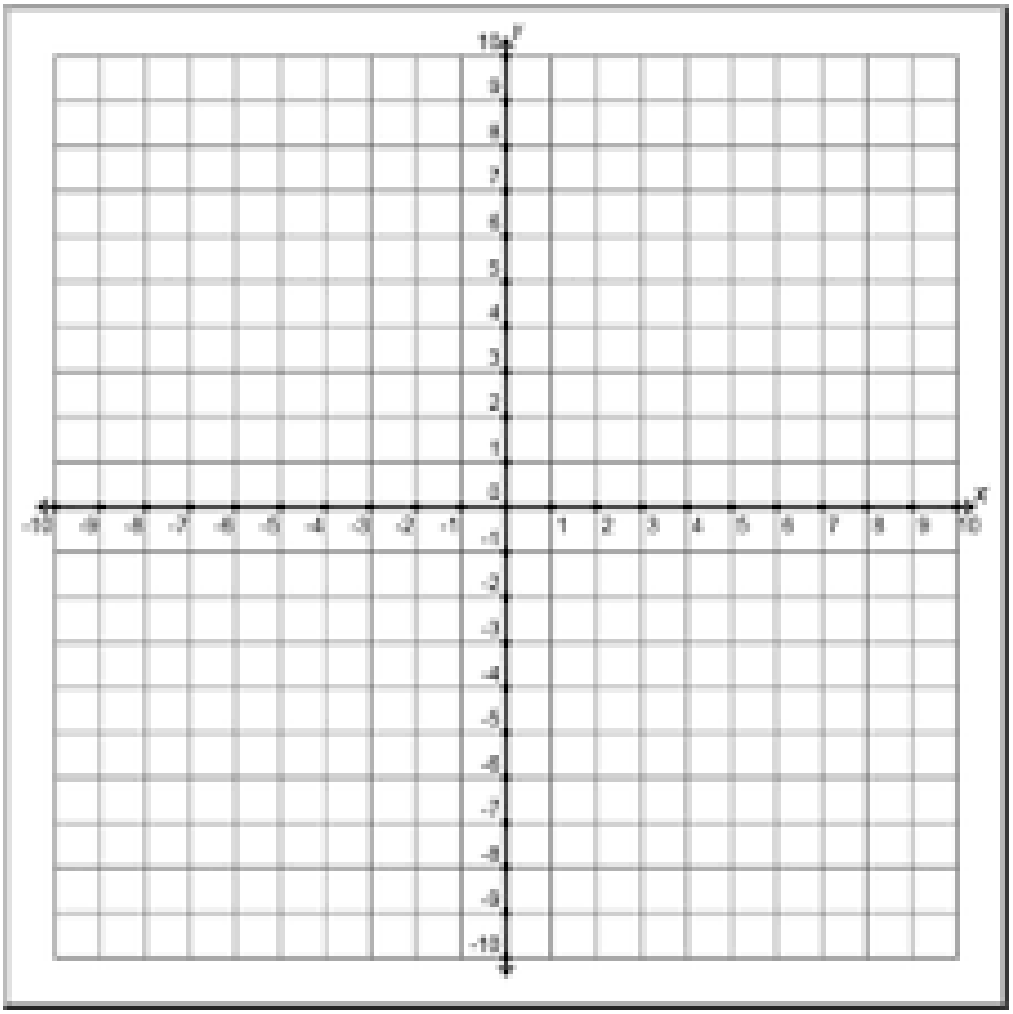
$\frac{23}{50} - \frac{13}{50} =$

$\frac{24}{100} + \frac{6}{100} =$

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

4 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) B (0, 4) C (7, −2) D (7, 4)



5 Insert the missing fraction:

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

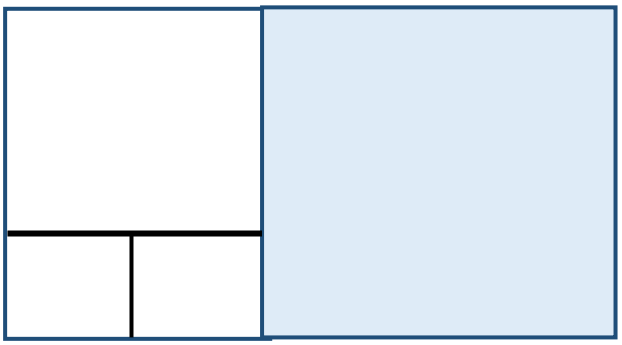
8 Open parenthesis and simplify where possible:

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

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

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

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 = _____

A = _____

10 Solve equations, make sure you check your results!

23 + **y** = 34

y = _____

y = _____

Check: _____

x - 63 = 127

x = _____

x = _____

Check: _____

35 + z ×5 = 60

_____

_____

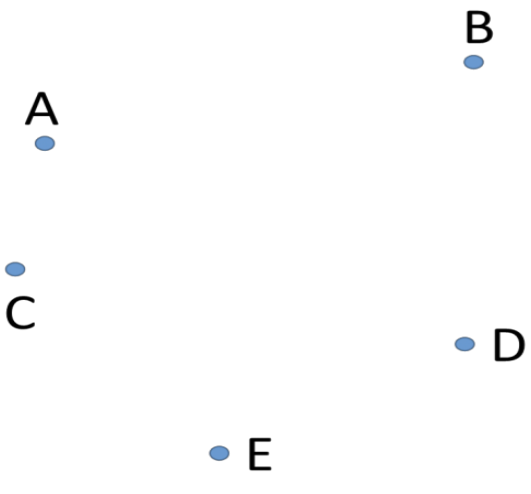
_____

Check:_____

11

a) Use a ruler and draw:

- Draw a straight line $\overleftrightarrow{AD}$.
- Draw a line segment $\overline{CB}$.
- Label the intersection K.
- 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:

∠BKD = _____

∠AKE =_____

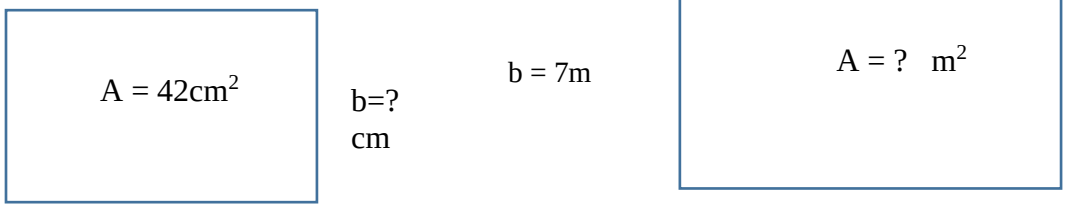
BONUS PROBLEMS

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!

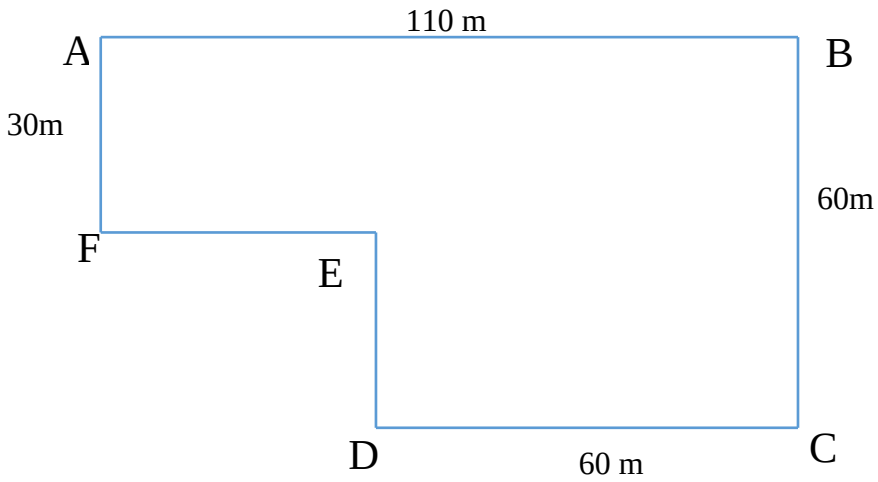
1) $6(3 + a) + 90 \div 10 + a =$ _____
2) $4 \times 7 + 2(4 - a) =$ _____
3) $10a + 2(a + b) + 20(b - a) =$ _____
4) $35 - 3(10 - z) + (z - 5) =$ _____

13* Find area or side of the rectangle.



b= _____ A=_____

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



P= _____

A=_____