

1.

REVIEW

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|--|---|---|---|--|---|---|---|---|---|---|---|--|---|---|---|---|---|--|---|---|---|--|---|--|---|---|---|
| | 5 | 6 | | | 7 | 5 | | | 3 | 7 | | | 1 | 4 | 5 | | | 3 | 6 | 4 | | | 3 | 6 | 8 | | | | | | |
| + | | 7 | | | - | | 9 | | | + | 3 | 5 | | | - | | 1 | 8 | | | + | | 1 | 7 | | | - | | 1 | 5 | 4 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|--|---|---|---|--|---|---|--|---|---|---|---|--|---|---|---|---|--|---|---|---|---|--|---|
| | 4 | 4 | | | 2 | 2 | | | 5 | 3 | | | 2 | 2 | 2 | | | 3 | 6 | 7 | | | 4 | 6 | 3 | | |
| x | | 9 | | | x | | 8 | | | x | | 7 | | | x | | 9 | | | x | | 7 | | | x | | 5 |

2

Write a mathematical expression for each problem, solve where possible.

| | |
|--|---|
| <p>A factory packed 45 boxes of snacks on Monday and 56 boxes on Tuesday.</p> <p>a) How many boxes did it pack during Monday and Tuesday? b) How many more boxes were packed on Tuesday than on Monday?</p> | <p>a) _____ b) _____</p> |
| <p>A factory packs 16 boxes of snacks on Thursday and <i>n</i> boxes on Friday.</p> <p>a) How many boxes did it pack during Thursday and Friday? b) How many more boxes were packed on Friday than on Thursday?</p> | <p>a) _____ b) _____</p> |
| <p>A factory packs <i>m</i> boxes of snacks on Monday and <i>k</i> boxes on Tuesday.</p> <p>a) How many boxes did it pack during Monday and Tuesday? b) How many more boxes were packed on Tuesday than on Monday? c) How many more boxes need to be packed to complete the order of a total <i>w</i> boxes for a week?</p> | <p>a) _____ b) _____ c) _____</p> |

3

Write down the expression and find the value if possible:

- a) Subtract 12 from the sum of 37 and 13 _____
- b) Add 23 to the difference between 70 and 35 _____
- c) Multiply the difference between 19 and 11 by 5 _____
- d) Divide the sum of 12 and 18 by 10 _____

4 Calculate:

$$18 - (19 - 10) - 8 = \underline{\hspace{2cm}} \quad (15 + 35) - (84 - 64) = \underline{\hspace{2cm}}$$

$$60 - (98 - 78) + 40 = \underline{\hspace{2cm}} \quad (20 - 10) + (76 + 14) = \underline{\hspace{2cm}}$$

5 Open up the parentheses:

$$(s + 3) + 4 = \underline{\hspace{2cm}} \quad (f + 4) - (a - 64) = \underline{\hspace{2cm}}$$

$$(n + b - d) - 94 = \underline{\hspace{2cm}} \quad (20 - t) + (w + v) = \underline{\hspace{2cm}}$$

$$(d + 8) - (7 - a) = \underline{\hspace{2cm}} \quad (20 + z) - (7 - a + b) = \underline{\hspace{2cm}}$$

6 Convert the following measurements.

| | | | |
|-------------------------|--------------------------|--------------------------|--------------------------|
| $1\text{m}=10\text{dm}$ | $1\text{dm}=10\text{cm}$ | $1\text{m}=100\text{cm}$ | $1\text{cm}=10\text{mm}$ |
|-------------------------|--------------------------|--------------------------|--------------------------|

$$2\text{ m } 4\text{dm } 3\text{ cm} = \underline{\hspace{1cm}}\text{ cm} \quad 300\text{ dm} = \underline{\hspace{1cm}}\text{ m} \quad 5\text{m } 9\text{ cm} = \underline{\hspace{1cm}}\text{ cm}$$

$$901\text{ cm} = \underline{\hspace{1cm}}\text{ m } \underline{\hspace{1cm}}\text{ cm} \quad 40\text{ m} = \underline{\hspace{1cm}}\text{ dm} \quad 56\text{ cm} = \underline{\hspace{1cm}}\text{ dm } \underline{\hspace{1cm}}\text{ cm}$$

$$314\text{ cm} = \underline{\hspace{1cm}}\text{ dm } \underline{\hspace{1cm}}\text{ cm} \quad 50\text{ dm} = \underline{\hspace{1cm}}\text{ m} \quad 6\text{ m } 8\text{ dm} = \underline{\hspace{1cm}}\text{ cm}$$

6 Convert the following measurements.

| | |
|---------------------------|---------------------------|
| $1\text{kg}=1000\text{g}$ | $1\text{L}=1000\text{mL}$ |
|---------------------------|---------------------------|

$$2\text{kg} = \underline{\hspace{1cm}}\text{ g}$$

$$3000\text{mL} = \underline{\hspace{1cm}}\text{ L}$$

$$5000\text{g} = \underline{\hspace{1cm}}\text{ kg}$$

$$4\text{L} = \underline{\hspace{1cm}}\text{ mL}$$

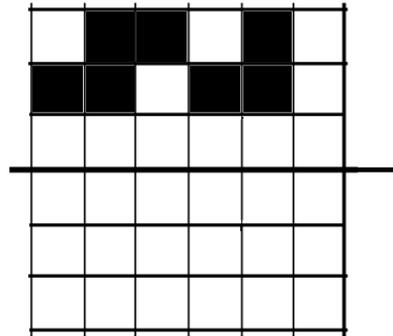
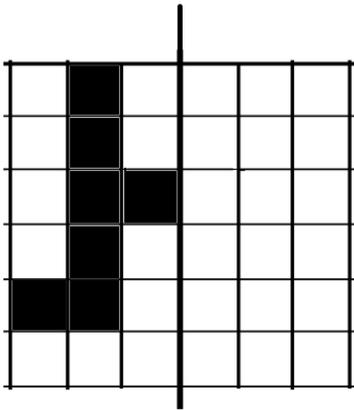
$$9\text{kg} = \underline{\hspace{1cm}}\text{ g}$$

$$5000\text{L} = \underline{\hspace{1cm}}\text{ mL}$$

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

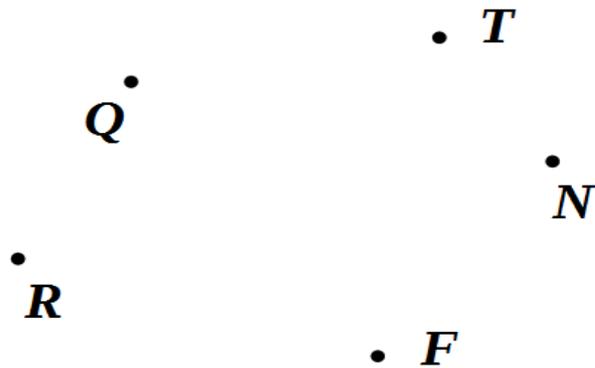
- 1) $6(5 + a) + 90 \div 10 =$ _____
- 2) $3 \times 8 + 3(4 - a) =$ _____
- 3) $4 \times 5 - 2 \times 3 + 25 \div 5 =$ _____
- 4) $23 + (35 - 4 \times 8) =$ _____

8 Finish the drawing using the line of symmetry:



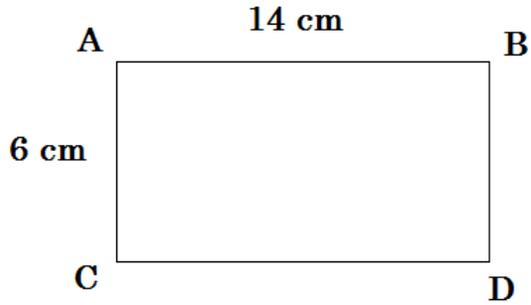
9.

- a) Use a ruler.
 - Draw a straight line \overleftrightarrow{RT} .
 - Draw a line segment \overline{FQ} .
 - Label the intersection M .
 - Draw a ray \overrightarrow{MN}
 - Name all acute angles:
 - _____
 - Name all obtuse angles:
 - _____



b) Draw a line segment \overline{AB} below. Draw another line segment \overline{EF} in a way that the intersection between \overline{AB} and \overline{EF} is a line segment \overline{EB} .

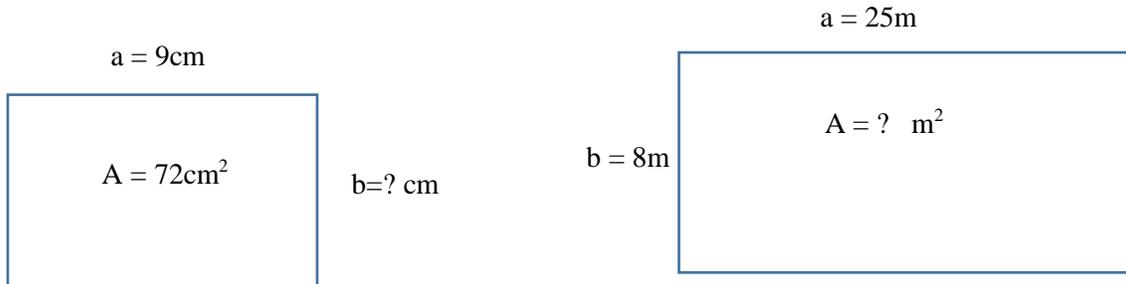
10 Find perimeter (the total length of the sides) of the rectangle ABCD three ways:



- 1) _____
- 2) _____
- 3) _____

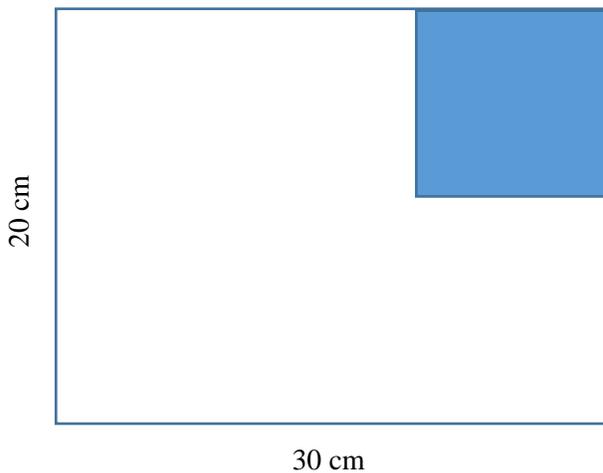
11

Find area or side of the rectangle.



12

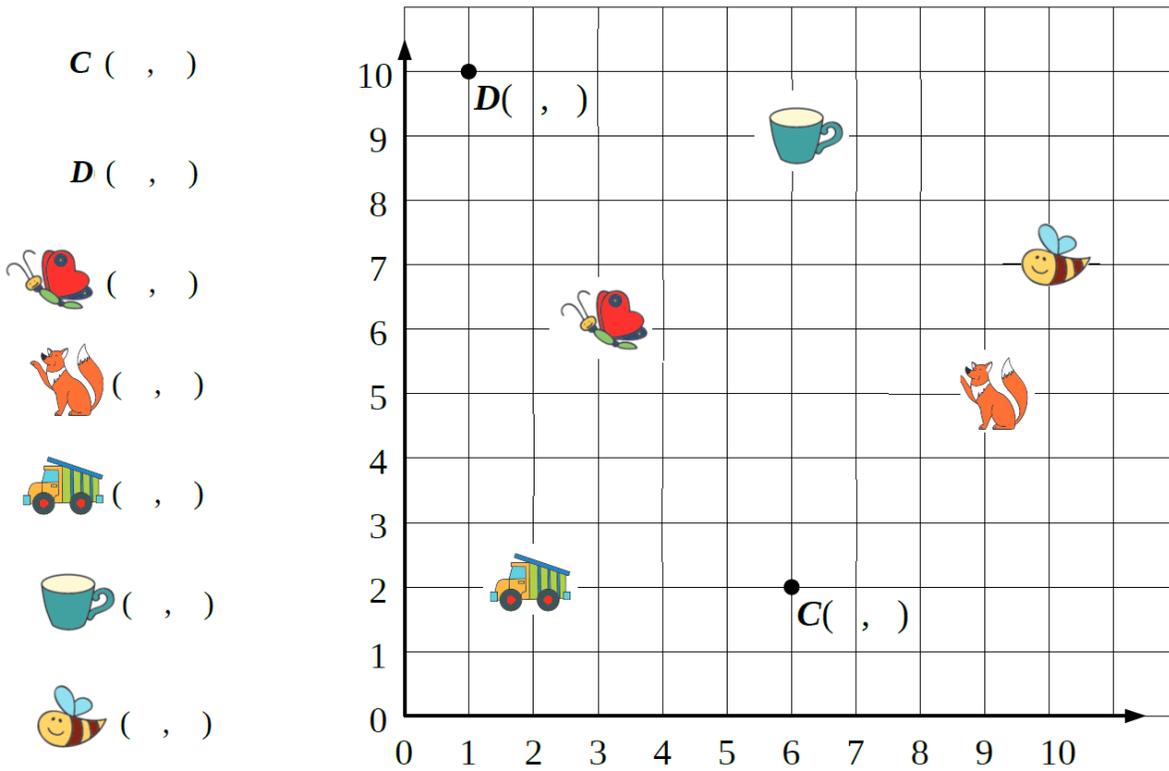
Find the area of a white shape two different ways, if you know that the blue shape is a square with a side of 8 cm.



- 1) _____
- _____
- 2) _____
- _____

13

Find coordinates of the points **C** and **D** as well as the coordinates of the other objects.



14

$76 - y = 42$

$y =$

$y =$

Check:

$5 \times y = 35$

$y =$

$y =$

Check:

$x - 76 = 18$

$x =$

$x =$

Check:

$x \div 6 = 8$

$x =$

$x =$

Check:

$z - 12 = 95$

$z =$

$z =$

Check:

$z \times 7 = 42$

$z =$

$z =$

Check: