

**1.** Solve equations according to example:

$$x \div 3 = 3 \quad x = 3 \times 3 \quad x = 9$$

*Check:  $9 \div 3 = 3$*

$$3x = 12 \quad x =$$

Check:

$$6 \div x = 6 \quad x =$$

Check:

$$25 + x = 75 \quad x =$$

Check:

$$x - 36 = 36 \quad x =$$

Check:

$$7x = 63 \quad x =$$

Check:

**2.** Solve each expression using the correct order of operations

$$15 \div 3 + 2 \times 10 \div 5 \div 2 + 13 = \underline{\hspace{10cm}}$$

$$28 - 28 \div 7 \div 2 \times 10 - 8 = \underline{\hspace{10cm}}$$

$$9 \times 2 \div 3 - 9 \div 3 \times 2 = \underline{\hspace{10cm}}$$

**3.** Remove the parentheses and collect like terms (simplify) in each of the following:

a)  $4(8 + 5) - 20 = 4 \times 8 + 4 \times 5 - 20 = 32 + 20 - 20 = 32$

b)  $4(a + b) - a = \underline{\hspace{10cm}}$

c)  $4(a - b) - 2(a + b) = \underline{\hspace{10cm}}$

d)  $(c + d - e) + (c - d + e) = \underline{\hspace{10cm}}$

**4.** The sum of the age of brother and sister is 20. The brother is 2 years older than his sister.

How old is the brother? \_\_\_\_\_

How old is the sister? \_\_\_\_\_

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5. Compare using  $>$ ,  $<$ , or  $=$ .

$$14 \times 2 \square 14 + 14 + 14$$

$$a \times 2 \square a \div 2$$

$$12 \div c \square 18 \div c$$

$$56 \times 3 \square 56 \times 8$$

$$m \times n \square n \times m$$

$$d \div 4 \square d \div 5$$

$$25 \times 4 \square 4 \times 20$$

$$b + b \times 7 \square b \times 8$$

$$y \div 1 \square y \times 1$$

$$17 \times 8 \square 7 \times 17$$

$$x \times 7 - x \square x \times 6$$

$$z + 1 \square z \times 1$$

6. Using a ruler, draw two intersecting rays  $[DE]$  and  $[AM]$ . Then, draw a ray that intersects ray  $[DE]$  but does not intersect ray  $[AM]$ .

7. On a square grip paper draw a rectangle 2 cm by 6 cm and find its perimeter - P. Then, draw a square with the same perimeter. Calculate the area for rectangle and for the square. What did you notice?

8. a) How many cars can you build if you have 84 wheels?

b) How many hours are there in 660 minutes?

c) How many meters are there in 550 centimeters?

9. a) Look at the front, right side, left side, top and back view drawings. Match each one with a 3D object. Circle the matching 3D object.

Top View	Right Side View	Left Side View

Back View	Top View	Left Side View

Front View	Top View	Right Side View

Left Side View	Back View	Top View

- b) Look at these 3D objects. Draw some of the 2D viewpoints (from the front, right side, left side, top and back).

Top View	Right Side View	Back View

Front View	Top View	Left Side View

Front View	Top View	Right Side View

Left Side View	Back View	Top View

10.

Dina is jumping from one blue dot to the next one ( mark her stops with BLUE)

Ben is jumping from one red dot to the next one ( mark her stops with RED)

DINA's path:  $(2,3) \rightarrow (5,6) \rightarrow (7,8) \rightarrow (5,10)$

BEN's path:  $(0,10) \rightarrow (3,8) \rightarrow (7,7) \rightarrow (5,2)$

Can you figure out the longest jump ?

Who made it? \_\_\_\_\_

From what point to what point? \_\_\_\_\_

