Lesson 25. Classwork

WARM-UP

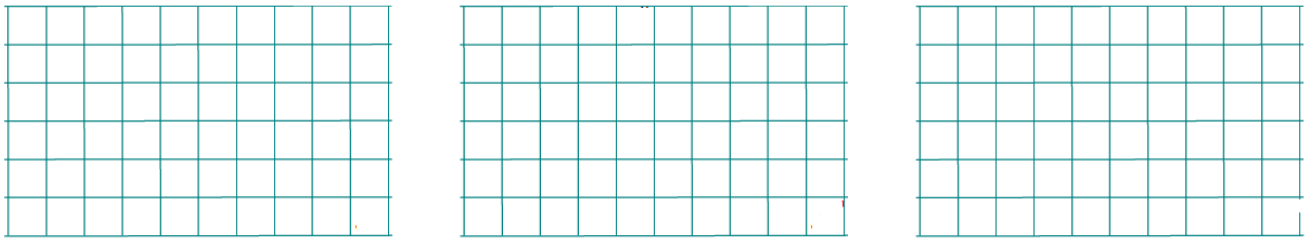
1.

Solve equations according to example:

x ÷ 3 = 3	**x = 3 × 3**	**x = 9**	**Check: 9 ÷ 3 = 3**
2x = 8	x =	x=	Check:
240 – x = 180	x =	x=	Check:
812 + x = 900	x =	x=	Check:

2.

48 ÷ X = 8 | 53 ÷Y = 7 | W x 9 = 72



3. Compare, if possible:

$2 \times c + c \square c \times 3$ | $3 \times c + 5 \square c \times 4$ | $c \times 6 \square c \times 3 + c \times 2$

$x \times 5 - x \times 2 \square x \times 3$ | $p + p \times 2 \square p \times 4$ | $q \times 4 \square q + q + q + 7$

NEW MATERIAL

4. Collect the like items to simplify:

$5a + 6a =$ _____

$25 + a + b =$ _____

$3 + 2x + 4 - x =$ _____

$41 + 10a - 25 - 10x + 7a =$ _____

5.

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

a) $2(m+4)+3(m+6) =$ _____

b) $4(t-2) -3(t+1) =$ _____

c) $7(m-3) -2(m-4) =$ _____

6.

Solve each expression using the correct order of operations

$20 \div 4 - 3 \times 6 \div 9 + 4 \times 4 \div 8 =$ _____

$10 + 40 \div 5 \div 2 \times 3 \div 6 =$ _____

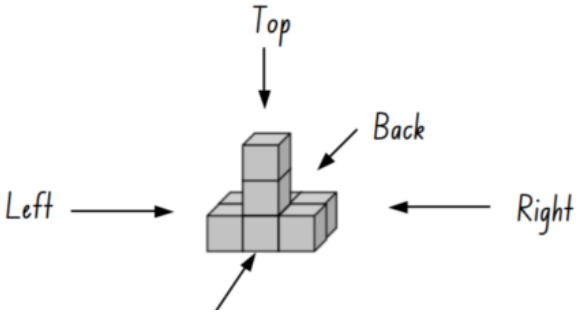
$6 \times 4 \div 8 \times 5 - 35 \div 5 + 1 \times 7 =$ _____

$4(8 + 5) - 20 =$ _____

9.

2D projections of 3D models

a) Take a look at the solid structure build by putting together 8 identical cubes:



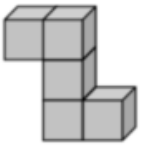
Front View	Top View	Right Side View	Left Side View	Back View

b) Take a look at the front, right side and top projections. Match them with 3D objects. Circle the matching 3D object.

Front View	Top View	Right Side View

Top View	Right Side View	Left Side View

c) Look at these 3D objects. Draw the 2D projections.



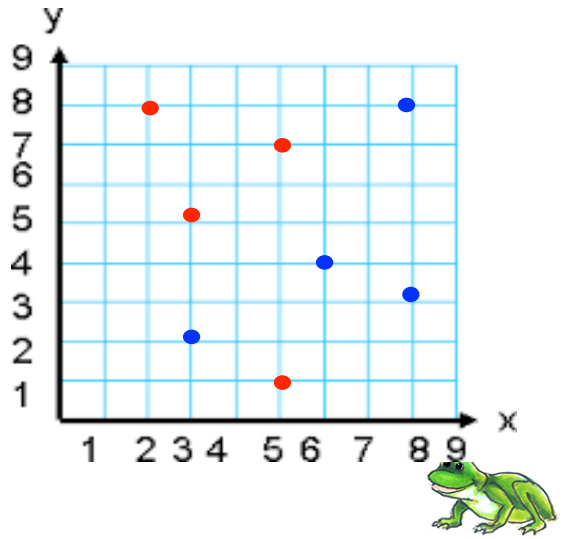
Front View	Top View	Right Side View

Top View	Right Side View	Left Side View

REVIEW

10. Ben is jumping from one red dot to the next one; from the top to the bottom. Dina is jumping from one blue dot to the next one, from the bottom to the top. Write down the coordinates of each dot they jump from.

Ben: (2,8) →



11.

Name all the points:

Name ANY three rays:

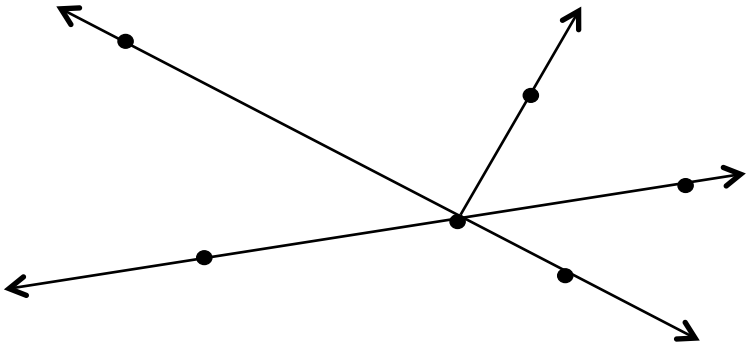
_____

Name ANY two line segments:

_____

Name ANY line in two ways:

_____



12. The length of a rectangle is equal to **a** cm and its width is **b** cm. Explain the geometric meaning of the following expressions:

a – b _____

a × b _____

a × 2 + b × 2 _____