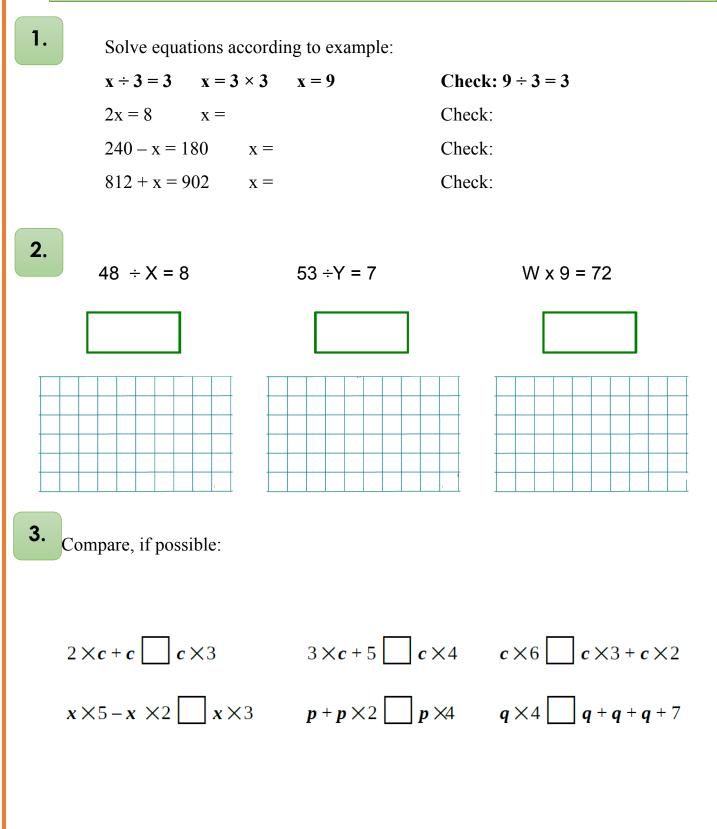


Lesson 25. Classwork

WARM-UP



Lesson 25 Order of operations, simplification, 3D figures and 2D projections 2017-18

NEW MATERIAL

Properties of Multiplication

Commutative property of multiplication *a* × *b* = *b* × *a*

Associative Property: $(a \times b) \times c = a \times (b \times c) = a \times b \times c$

Distributive property: $a \times (b + c) = a \times b + a \times c$,

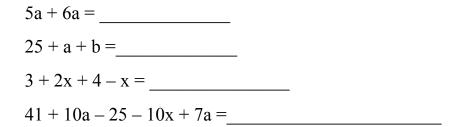
If b > c, then $a(b - c) = a \times b - a \times c$

There are many times in algebra when you need to simplify an expression.

The **associative**, **commutative**, **and distributive properties** of algebra are the properties most often used to simplify algebraic expressions.

4.

Collect the like items to simplify:



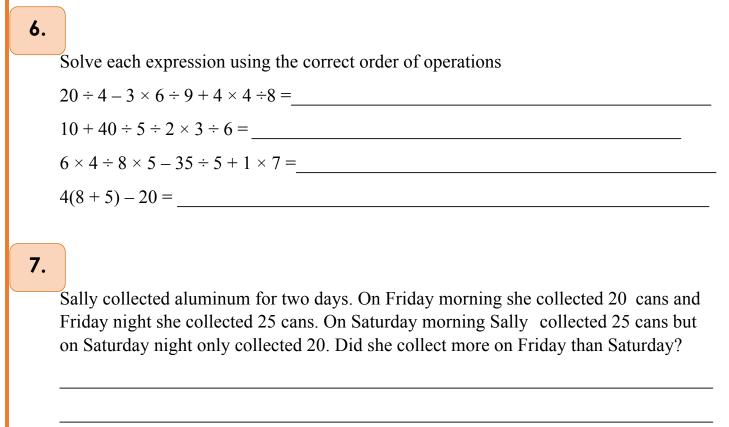
5.

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

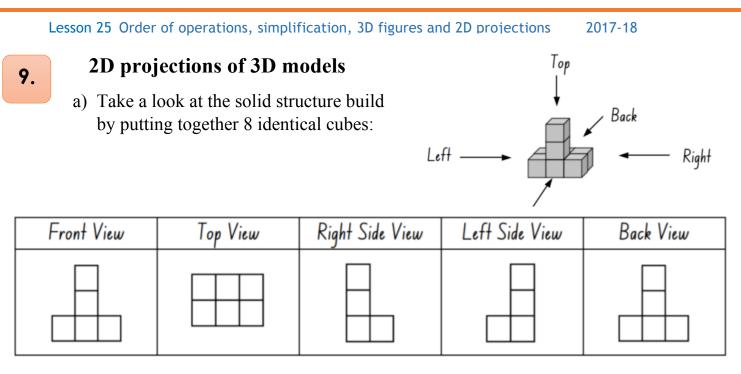
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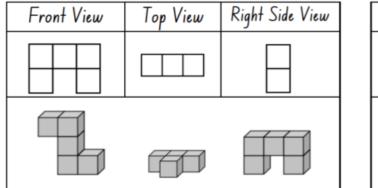
8.

Volleyball uniform costs \$13 for the shirt, \$12 for pants, and \$8 for socks. Write two equivalent expressions for the total cost of 12 uniforms. Then find the cost.

a)



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

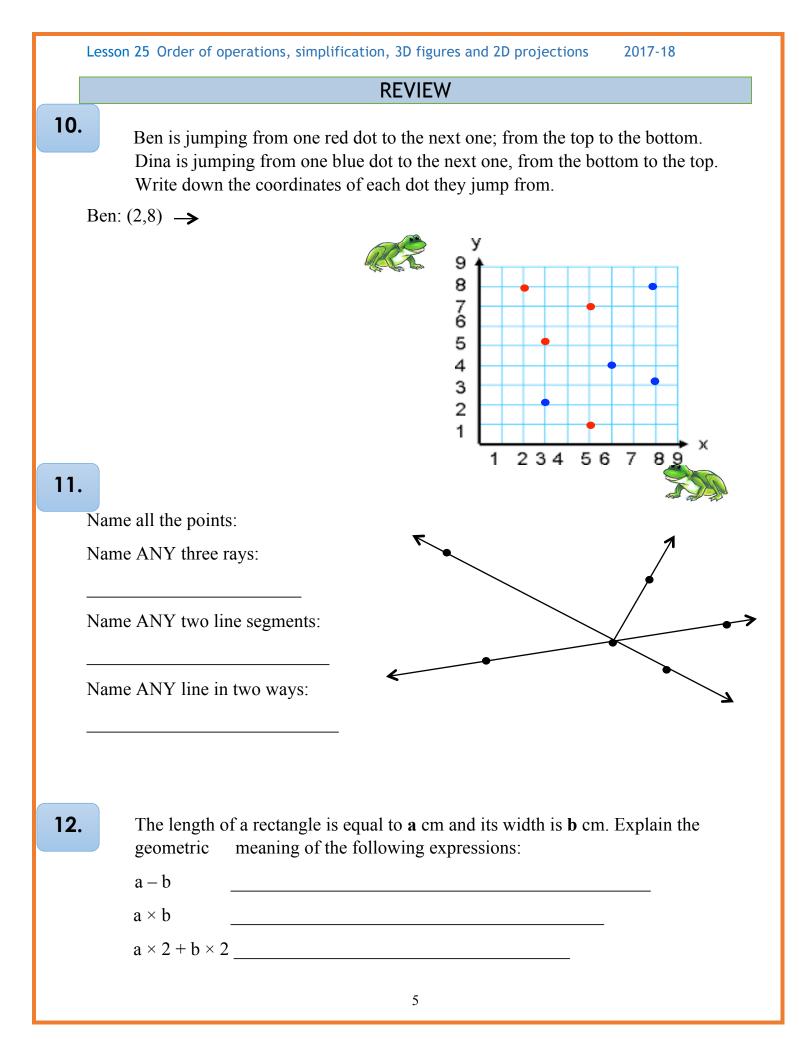


Top View	Right Side View	Left Side View

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	



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