Maths

Miss Davies



1. Simplify the expressions.

a)
$$2z \times 3$$

b)
$$6 \times 7y$$

- c) $2w \times 0.5$
- d) $9b \times 2b$
- e) $2.7a \times 3a$
- f) $6p \times 2p \times 3p$
- g) $3d \times 5e$
- h) $2y \times 3z \times y$

2. Fill in the missing values in the expressions.

b)
$$\times 7b \equiv 28ab$$

c)
$$6.6p \times \boxed{} = 3.3p$$

3. Simplify the expressions.

- a) $50q \div 10$
- b) 14e ÷ e
- c) $16r^2 \div 2r$
- d) $15f^3 \div 3f^2$
- e) $64x^3 \div 4x$



4. Write 5 expressions that simplify to $8x^2y^3$

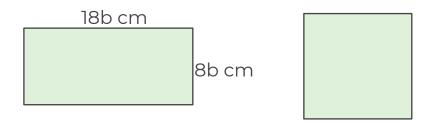
E.g.
$$2xy \times 4xy^2 \equiv 8x^2y^3$$

5. Tyra is simplifying $9x \times 5x^2$ Her working out is shown below.

$$9x \times 5x^2 \equiv 9x \times 25x \equiv 225x^2$$

What mistake has she made?

6. The rectangle and square below have the same area.



Find the perimeter of the square.



Answers



1. Simplify the expressions.

a)
$$2z \times 3 \equiv 6z$$

b)
$$6 \times 7y = 42y$$

c)
$$2w \times 0.5 \equiv w$$

d) 9b × 2b
$$\equiv 18b^2$$

e)
$$2.7a \times 3a \equiv 8.1a^2$$

f)
$$6p \times 2p \times 3p = 36p^3$$

g)
$$3d \times 5e \equiv 15de$$

h)
$$2y \times 3z \times y \equiv 6y^2z$$

2. Fill in the missing values in the expressions.

a)
$$5y \times \boxed{3} \equiv 15y$$

b)
$$4a \times 7b = 28ab$$

c)
$$6.6p \times \left[\frac{1}{2} \right] = 3.3p$$

3. Simplify the expressions.

a)
$$50q \div 10 = 5q$$

b)
$$14e \div e = 14$$

c)
$$16r^2 \div 2r \equiv 8r$$

d)
$$15f^3 \div 3f^2 \equiv 5f$$

e)
$$64x^3 \div 4x \equiv 16x^2$$



4. Write 5 expressions that simplify to $8x^2y^3$

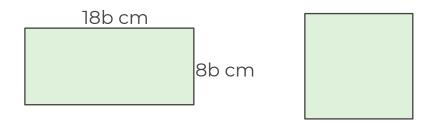
E.g.
$$2xy \times 4xy^2 \equiv 8x^2y^3$$

5. Tyra says is simplifying $9x \times 5x^2$. Her working out is shown below.

$$9x \times 5x^2 \equiv 9x \times 25x \equiv 225x^2$$

What mistake has she made? $5x^2$ isn't equivalent to 25x. The correct answer is $45x^3$.

6. The rectangle and square below have the same area.



Find the perimeter of the square. 48b cm

