



Multiplying, Dividing and Mixed Operations

- 1 Dr Dobmaths claims $6 \times a$ is the same as $a \times 6$ if $a = 4$ find the values of $6 \times a$ and $a \times 6$. Is he correct?
- 2 Write true or false
 - a) $4 \times a$ can be written as $4a$
 - b) $n \times 7$ can be written as $7n$
 - c) $5y$ can be written as $5 + y$
 - d) $a \times b$ can be written as ab
- 3 Simplify $\frac{2a}{3a}$
- 4 Write these algebraic expression without any multiplication signs
 - a) $3 \times t$
 - b) $p \times 5$
 - c) $1 \times k$
 - d) $3f \times 5g$
 - e) $4a \times 2b \times c$
 - f) $3 \times a \times 4 \times b$
- 5 Write these the short way
 - a) $b \times b$
 - b) $y \times y$
 - c) $t \times t \times t$
 - d) $3t \times 5t$
 - e) $4a \times 3a$
 - f) $7y \times 3y$
- 6 Write without division signs
 - a) $p \div q$
 - b) $a \div z$
 - c) $3 \div b$
 - d) $(3a + 1) \div 5$
 - e) $(6a + 2) \div (a + 4)$
 - f) $4a + b \div 5$

7 Simplify the following expressions

a) $\frac{3a}{7a}$

b) $\frac{7ab}{5a}$

c) $\frac{2y}{4}$

d) $\frac{6a}{9a}$

e) $\frac{10p}{15p}$

f) $\frac{9b}{3ab}$

Answers

1 $6 \times 4 = 24$ and $4 \times 6 = 24$ He is correct.

2 a) true b) true

c) false d) true

3 $\frac{2}{3}$

4 a) $3t$ b) $5p$ c) k

c) $15fg$ d) $8abc$ e) $12ab$

5 a) b^2 b) y^2 c) t^3
d) $15t^2$ e) $12a^2$ f) $21y^2$

6 a) $\frac{p}{q}$ b) $\frac{a}{z}$ c) $\frac{3}{b}$

d) $\frac{3a+1}{5}$ e) $\frac{6a+2}{a+4}$ f) $4a + \frac{b}{5}$

7 a) $\frac{3}{7}$ b) $\frac{7b}{5}$ c) $\frac{y}{2}$

d) $\frac{2}{3}$ e) $\frac{2}{3}$ f) $\frac{3}{a}$