Corbett maths

Examples

Workout

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Question 1: Simplify the following expressions.

(a) $12x \div 2$

(b) $9y \div 3$

(c) $15a \div 5$

(d) $28c \div 7$

(e) $8m \div 2m$

(f) $10c \div 2c$

(g) $18d \div 3d$

(h) $35m \div 5m$

(i) $5ac \div a$

(j) $6xy \div y$

(k) $7mn \div n$

(l) $20ab \div 2a$

(m) $25xy \div 5y$

(n) $80gh \div 10h$

(o) $27xy \div 3xy$

(p) $32abc \div 8ac$

Question 2: Simplify the following expressions.

(a) $\dfrac{14c}{2}$

(b) $\dfrac{56w}{7}$

(c) $\dfrac{45a}{9a}$

(d) $\dfrac{105y}{5y}$

(e) $\dfrac{mw}{m}$

(f) $\dfrac{8cf}{c}$

(g) $\dfrac{15xy}{3x}$

(h) $\dfrac{70ab}{2a}$

(i) $\dfrac{30ef}{6ef}$

(j) $\dfrac{20cde}{5cde}$

(k) $\dfrac{42ghk}{6gh}$

Question 3: Simplify the following expressions.

(a) $h^2 \div h$

(b) $x^3 \div x$

(c) $7y^2 \div y$

(d) $40m^2 \div 2m$

(e) $16c^2 \div 4c$

(f) $20g^2 \div g^2$

(g) $45x^3 \div x$

(h) $30t^3 \div 3t$

(i) $9h^3 \div 3h^2$

(j) $10x^3 \div 5x^3$

(k) $24m^2 \div 3$

Question 4: Simplify the following expressions.

(a) $\dfrac{g^2}{g}$

(b) $\dfrac{w^3}{w}$

(c) $\dfrac{3a^2}{a}$

(d) $\dfrac{24e^2}{3e}$

(e) $\dfrac{35c^3}{7c^2}$

(f) $\dfrac{52c^3}{13c}$

(g) $\dfrac{100w^3}{10w^3}$
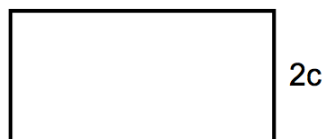
Question 5: Simplify the following expressions

(a) $a^2b^2 \div ab$ (b) $xy^2 \div x$ (c) $4ab^3 \div 2ab^2$ (d) $25c^2d^2 \div 5cd$

(e) $16x^4y^3 \div 4x^2y^2$ (f) $10c^3de^2 \div 2cde$ (g) $15abc^4 \div bc^3$ (h) $24d^3e^9f \div 8d^3f$

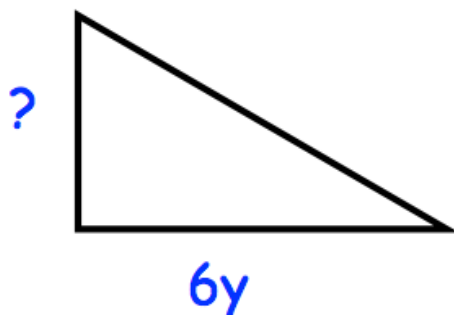**Question 6:** Simplify the following expressions.

(a) $\dfrac{a^3c^3}{ac}$ (b) $\dfrac{10a^4c^3}{2ac^2}$ (c) $\dfrac{9abc^3}{3ac^2}$ (d) $\dfrac{45a^5b^8c^4}{3a^3b^4c}$

Apply

Question 1: The area of the rectangle shown below is 18cd
Find an expression for the length of the longest side.

2c

Question 2: The area of the triangle shown below is $12y^2$
Find an expression for the height of the triangle.

?

6y

Answers

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