Corbett maths

Dividing Terms

Video 11 on www.corbettmaths.com

Workout

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) $\frac{14c}{2}$ (b) $\frac{56w}{7}$ (c) $\frac{45a}{9a}$ (d) $\frac{105y}{5y}$

(e) $\frac{mw}{m}$ (f) $\frac{8cf}{c}$ (g) $\frac{15xy}{3x}$ (h) $\frac{70ab}{2a}$

(i) $\frac{30ef}{6ef}$ (j) $\frac{20cde}{5cde}$ (k) $\frac{42ghk}{6gh}$

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) $\frac{g^2}{g}$ (b) $\frac{w^3}{w}$ (c) $\frac{3a^2}{a}$ (d) $\frac{24e^2}{3e}$

(e) $\frac{35c^3}{7c^2}$ (f) $\frac{52c^3}{13c}$ (g) $\frac{100w^3}{10w^3}$

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

Apply

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

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