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.

![Rectangle with side labeled 2c]

Question 2: The area of the triangle shown below is 12y²
Find an expression for the height of the triangle.

![Triangle with side labeled 6y]

Answers

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