

Mathematics: Lesson-8

Assessment



Question 1

Factor $\frac{14m-14}{56m^2-56m}$

A. $\frac{14(m-1)}{56(m^2-m)}$

B. $\frac{14(m-1)}{56m(m-1)}$

C. $\frac{(7m-7)(7m+7)}{(28m-28)(28m+28)}$

D. $\frac{14m(m-1)}{56m^2(m-1)}$

Question 2

Find this product $\frac{14m-14}{56m^2-56m} \times \frac{8m^2+48m}{2m-2}$

A. $\frac{m+6}{m-1}$

B. $\frac{3m}{(m+7)(m-9)}$

C. $\frac{9m^2(m+6)}{m-6}$

D. $9(m-8)$

Question 3

Find this product $\frac{p^2-5p-6}{7p+7} \times \frac{7}{5p^2+15p}$

A. $\frac{3p}{p-4}$

B. $\frac{8}{(p-10)(p-8)}$

C. $(p-8)(p+9)$

D. $\frac{p-6}{5p(p+3)}$

Question 4

Find the product $\frac{x^2-14x+48}{4x^2-32x} \times \frac{5x^2+15x}{x+3}$

A. $\frac{x+8}{32}$

B. $\frac{x-7}{6}$

C. $\frac{5(x-6)}{4}$

D. $6x^2$

Question 5

Find this quotient $\frac{8}{24x-64} \div \frac{10}{24x-64}$

A. $\frac{4}{5}$

B. $\frac{5}{4x^2}$

C. $\frac{12}{x-1}$

D. $\frac{9x^2(x-3)}{x+8}$

Question 6

Find this quotient $\frac{4a^2-12a}{2a^2+2a} \div \frac{6a-18}{a^2-1}$

A. $\frac{2}{3a^2}$

B. $\frac{a-1}{3}$

C. $\frac{a+1}{a-7}$

D. $\frac{14}{a-10}$

Question 7

Find this quotient $\frac{r^2-13r+42}{r-7} \div \frac{r^2-r-30}{r^2+3r-10}$

A. $\frac{r-3}{5}$

B. $\frac{(r-3)(r+2)}{r+9}$

C. $r - 2$

D. $\frac{r+9}{r-1}$

Question 8

Find this product $\frac{c^2+7c+10}{c^2+2c-15} \times \frac{4c+12}{3c+15}$

A. $\frac{4(c+2)(c+3)}{3(c-3)(c+5)}$

B. $\frac{4(c+2)(c+5)}{3}$

C. $\frac{4(c+2)(c+3)}{3(c-3)}$

D. $\frac{4(c+2)}{3}$

Question 9

Find this quotient $\frac{4x}{x-1} \div \frac{3x+3}{x^2-1}$

A. $\frac{4x}{3}$

B. $\frac{4x^2}{3}$

C. $\frac{4x^2}{3(x+1)}$

D. $\frac{4(x+1)}{3}$

Question 10

Simplify this complex fraction $\frac{4 + \frac{2}{x}}{\frac{x}{3} + \frac{1}{6}}$

A. 1

B. 12

C. $\frac{x}{12}$

D. $\frac{12}{x}$