

4.3 – Solve Equations Involving Fractions Worksheet #2

MPM1D

Jensen

1. Solve.

a) $\frac{c}{2} = 7$

b) $\frac{n}{-3} = 4$

c) $\frac{w}{-3} = -5$

d) $\frac{h}{6} = -3$

2. Find each root.

a) $2 = \frac{1}{8}(s + 7)$

b) $\frac{v+8}{5} = 4$

c) $\frac{3}{4}(r - 1) = 6$

d) $\frac{u-8}{2} = -1$

e) $-\frac{1}{4}(z-5) = -1$

d) $\frac{x+4}{3} = \frac{x+6}{5}$

f) $\frac{2(e+5)}{3} = -2$

e) $\frac{3n+2}{8} = \frac{3n-2}{4}$

3. Find each root.

a) $\frac{b+3}{4} = \frac{b-1}{2}$

f) $\frac{1}{9}(2y-1) = \frac{1}{3}(y+1)$

b) $\frac{d-1}{6} = \frac{d-3}{3}$

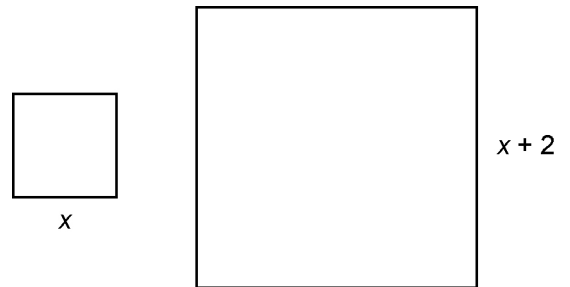
4. Solve and check.

a) $k-3 = \frac{k+3}{-5}$

c) $\frac{1}{6}(z-4) = \frac{1}{2}(z-2)$

b) $\frac{2z-3}{5} = 3$

5. The perimeter of the small square is one-third the perimeter of the large square. What are the side lengths of the squares?



c) $\frac{1}{3}(9 + g) = g + 1$

d) $\frac{h+2}{3} = \frac{3h-2}{5}$

6. The height of a triangle is 2 cm less than its width. The area of the triangle is 24 cm^2 . What are the measures of the base and height?

Answers

1. a) 14 b) -12 c) 15 d) -18
2. a) 9 b) 12 c) 9
d) 6 e) 9 f) -8
3. a) 5 b) 5 c) 1
d) -1 e) 2 f) -4
4. a) 2 b) 9 c) 3 d) 4
5. 1; 3
6. base: 8 cm; height: 6 cm