

Cross Multiplying

7th Grade Math

Name: Key

1. $\frac{3}{z} = \frac{1}{8}$

$$z = 24$$

2. $\frac{b}{4} = \frac{3}{2}$

$$2b = 12$$

$$b = 6$$

3. $\frac{v}{6} = \frac{1}{2}$

$$2v = 6$$

$$v = 3$$

4. $\frac{2}{5} = \frac{3x-1}{7x+5}$

$$14x+10 = 15x-5$$

$$15 = x$$

5. $\frac{f+3}{12} = \frac{7}{2}$

$$2f+6 = 84$$

$$2f = 78$$

$$f = 39$$

6. $\frac{3}{s-2} = \frac{1}{7}$

$$21 = s-2$$

$$s = 23$$

7. $\frac{3}{10} = \frac{b+7}{20}$

$$10b+70 = 60$$

$$10b = -10$$

$$b = -1$$

8. $\frac{2}{3} = \frac{6}{q-4}$

$$2q-8 = 18$$

$$2q = 26$$

$$q = 13$$

9. $\frac{3}{5} = \frac{x}{100}$

$$5x = 300$$

$$x = 60$$

10. $\frac{38}{19} = \frac{n-5}{20}$

$$19n-95 = 760$$

$$19n = 855$$

$$n = 45$$