

$$8. \frac{3k}{27} = \frac{2}{3}$$

$$9k = 54$$

$$\boxed{k=6}$$

$$10. \frac{6}{t+4} = \frac{42}{77}$$

$$462 = 42(t+4)$$

$$462 = 42t + 168$$

$$294 = 42t$$

$$\boxed{t=7}$$

p.171: 8,10,20,22

p.179: 10-18 even

$$20. \frac{a}{9a-2} = \frac{1}{8}$$

$$8a = 9a - 2$$

$$-1a = -2$$

$$\boxed{a=2}$$

$$22. \frac{c-8}{-2} = \frac{11-4c}{11}$$

$$11(c-8) = -2(11-4c)$$

$$11c - 88 = -22 + 8c$$

$$3c - 88 = -22$$

$$3c = 66$$

$$\boxed{c=22}$$

p.179

$$10. \frac{x}{100} = \frac{99}{225}$$

$$225x = 9900$$

$$\boxed{x=44}$$

$$12. \frac{18}{100} = \frac{x}{150}$$

$$2700 = 100x$$

$$\boxed{x=27}$$

$$14. \frac{82}{100} = \frac{x}{215}$$

$$100x = 17630$$

$$\boxed{x=176.3}$$

$$16. \frac{90}{100} = \frac{189}{x}$$

$$90x = 18900$$

$$\boxed{x=210}$$

$$18. \frac{52}{100} = \frac{71.5}{x}$$

$$7150 = 52x$$

$$\boxed{x=137.5}$$