

#1 WHAT IS 110% OF 200?

$$X = (110\%)(200)$$

$$X = (1.1)(200)$$

$$X = 220$$

$\frac{3}{2}$  ALGEBRA

$1\frac{1}{2}$  REAL LIFE

1.5 SCI, MANUF

#2 30 IS 70% OF WHAT?

$$30 = (70\%)(X)$$

$$30 = (0.7)(X)$$

$$\frac{30}{0.7} = X$$

$$\frac{10(30)}{10(0.7)} = X$$

$$\frac{300}{7} = X$$

#3 50 IS WHAT PERCENT OF 400?

$$50 = (X)(400)$$

$$\frac{50}{400} = \frac{400X}{400}$$

$$.125 = X$$

$$12.5\% = X$$

#4

THE SUM OF 3 TIMES y AND 5 IS 26

$$3y + 5 = 26$$

$$3y = 26 - 5$$

$$3y = 21$$

$$\frac{3y}{3} = \frac{21}{3}$$

$$y = 7$$

#5

1ST NUM = X

2ND NUM = X+5

$$X + X + 5 = 65$$

$$2X + 5 = 65$$

$$2X = 65 - 5$$

$$2X = 60$$

$$\frac{2X}{2} = \frac{60}{2}$$

$$X = 30$$

30  
35

#6

1ST ODD = X

2ND ODD = X+2

3RD ODD = X+4

4TH ODD = X+6

5  
7  
9  
11

$$X + X + 2 + X + 4 + X + 6 = 32$$

$$4X + 12 = 32$$

$$4X = 32 - 12$$

$$4X = 20$$

$$\frac{4X}{4} = \frac{20}{4}$$

$$X = 5$$

#7

$$\frac{1+5+10}{3}$$

$$\frac{90 + 85 + 60 + 50 + 3X}{7} = 75$$

$$\frac{285 + 3X}{7} = 75$$

$$7(285 + 3X) = 7(75)$$

$$285 + 3X = 525$$

$$3X = 525 - 285$$

$$3X = 240$$

$$\frac{3X}{3} = \frac{240}{3}$$

$$X = 80$$