

P(chocolate chip)

$$\frac{\# \text{ of choc. chip}}{\text{total \# of cookies}}$$

$$\frac{20 \div 20}{80 \div 20} = \left(\frac{1}{4}\right)$$

Cookie

Chocolate Chip	20
Caramel Cin	12
Snickerdoodle	16
White Mac	18
lemon	<u>14</u>
total	80

P(Caramel or Snickerdoodle)

$$\frac{12}{80} + \frac{16}{80} = \frac{28}{80} \div 4 = \frac{7}{20}$$

$$P(\text{not lemon}) = \frac{80 - 14}{80} = \frac{66}{80} \div 2 = \frac{33}{40}$$

P(White Mac and then

choc chip with replacing)

white mac

$$\frac{18 \div 2}{80 \div 2} = \frac{9}{40}$$

$$\frac{20 \div 20}{80 \div 20} = \frac{1}{4}$$

$$\frac{9}{40} * \frac{1}{4} = \frac{9}{160}$$

Cookie

Chocolate Chip	20
Caramel Cin	12
Snickerdoodle	16
White Mac	18
lemon	<u>14</u>
total	80

P(Snickerdoodle and then a lemon w/o replacing)

$$\frac{16}{80} \div 8 = \frac{2}{10} \div 2 = \frac{1}{5}$$

lemon $\frac{14}{79}$

$$\frac{1}{5} * \frac{14}{79} = \frac{14}{395}$$

Cookie	
Chocolate Chip	20
Caramel Cin	12
Snickerdoodle	16
White Mac	18
lemon	<u>14</u>
total	80

P(Snickerdoodle and then Snickerdoodle w/o replacing)

$$\frac{16}{80} \div 16 = \frac{1}{5}$$

$$\frac{15}{79}$$

$$\frac{1}{5} * \frac{15}{79} = \frac{3}{79}$$

$$\frac{3}{4} = \frac{8}{x}$$

$$\frac{3x}{3} = \frac{32}{3}$$

$$x = \frac{32}{3}$$

$$\frac{x+3}{x-4} = \frac{1}{3}$$

$$3(x+3) = 1(x-4)$$

$$3x+9 = x-4$$

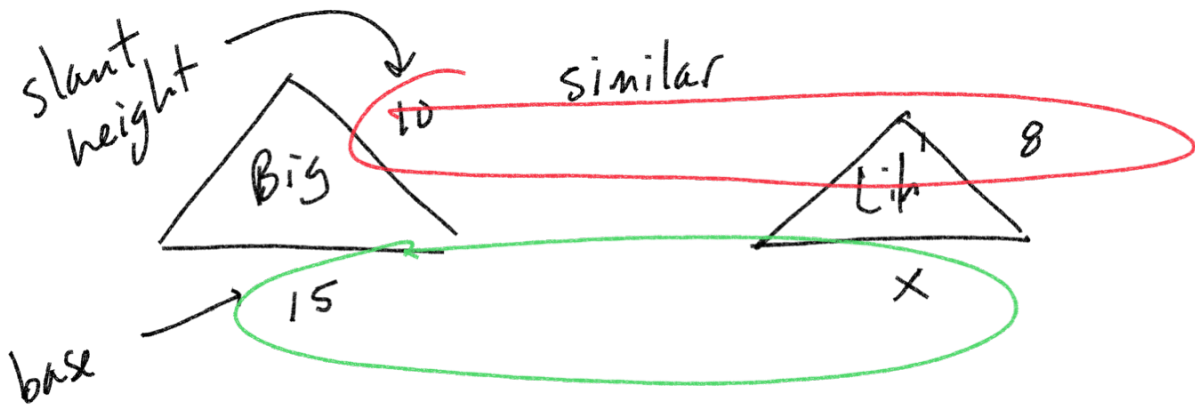
$$-x \quad -x$$

$$2x+9 = -4$$

$$-9 \quad -9$$

$$\frac{2x}{2} = \frac{-13}{2}$$

$$x = \frac{-13}{2}$$



Big

$$\frac{\text{slant height}}{\text{base}} = \frac{10}{15}$$

Lil

$$\frac{\text{slant height}}{\text{base}} = \frac{8}{x}$$

$$\frac{10x}{10} = \frac{120}{10}$$

$$x = 12$$

What is 4% of 720

\Downarrow \Downarrow \Downarrow \Downarrow \Downarrow
 x = 0.04 * 720
 \Downarrow

$$4\% \rightarrow 0.04$$

$$x = 28.8$$

What percent of 80 is 32?

\Downarrow \Downarrow \Downarrow \Downarrow
 x % * 80 = 32

$$\frac{80x}{80} = \frac{32}{80}$$

$$x = \frac{32}{80} = 0.4 * 100\%$$

$$40\%$$

64% of what is 20?
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 0.64 * x = 20

64% → 0.64
 percent decimal

64. → 0.64
 2 1

$$\frac{0.64x}{0.64} = \frac{20}{0.64} \quad 5x = 20$$

$$x = \frac{20}{0.64} = \boxed{31.25}$$

	1985	→	2020
Bread	\$0.74		\$2.54
CARS (Toyota Corolla)	\$7,395		19,600
TV (40in)	\$900		\$200

$$\frac{\text{new} - \text{old}}{\text{old}} * 100\%$$

video games
 71%

Bread

$$\frac{2.54 - 0.74}{0.74} * 100\% = \boxed{243\%}$$

CAR

$$\frac{19,600 - 7,395}{7,395} * 100\% = \boxed{165\%}$$

TV

$$\frac{200 - 900}{900} * 100\% = -22.2\%$$

22.2% decrease

HW
ch 4 Pre-Test
Optional HW 23
ch 4 Review
Test 4 due March 23rd
HW/a 22 March 19th
HW/a 21 today!