

T-MF Math Fundamentals Week 16 1/10

1.)  $2\frac{5}{8} \div 1\frac{3}{4}$

$$2\frac{5}{8} \rightarrow \frac{(8*2)+5}{8} = \frac{16+5}{8} = \frac{21}{8}$$

$$1\frac{3}{4} \rightarrow \frac{(4*1)+3}{4} = \frac{4+3}{4} = \frac{7}{4}$$

$$2\frac{5}{8} \div 1\frac{3}{4}$$

$$\frac{21}{8} \div \frac{7}{4}$$

$$\frac{21}{8} * \frac{4}{7} = 7$$

$$\frac{3}{8} * \frac{4}{1} = 4$$

$$\frac{3}{2} * \frac{1}{1} = \frac{3}{2}$$

2.)  $4\frac{1}{2} \div \frac{18}{10}$

$$4\frac{1}{2} \rightarrow \frac{(2*4)+1}{2} = \frac{8+1}{2} = \frac{9}{2}$$

$$4\frac{1}{2} \div \frac{18}{10}$$

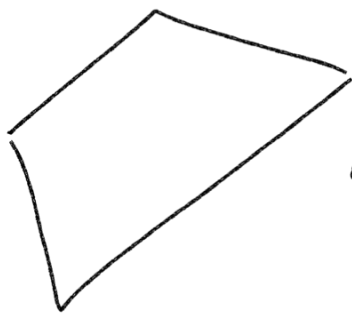
$$\frac{9}{2} \div \frac{18}{10}$$

$$\frac{9}{2} * \frac{10}{18} = 9$$

$$\frac{1}{2} * \frac{10}{2} = 2$$

$$\frac{1}{1} * \frac{5}{2} = \frac{5}{2}$$

parallel lines never touch



4 sided object

### Quadrilateral

Parallel sides

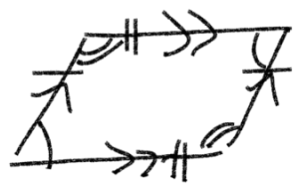
No Parallel lines

2 pairs of parallel sides

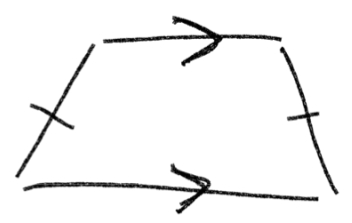
1 parallel side



kite



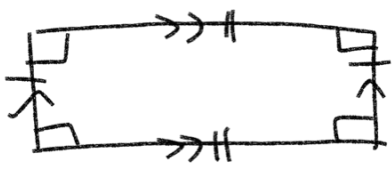
parallelogram  
opposite sides equal  
opposite angles equal



trapezoid

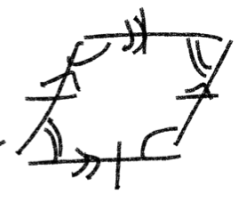
All angles equal

All sides equal



Rectangle

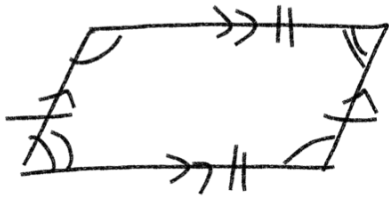
opposite sides parallel  
All angles equal  
All sides equal



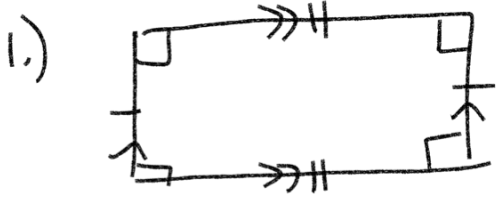
Rhombus

square

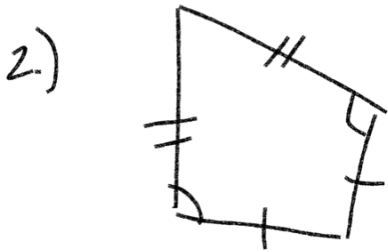




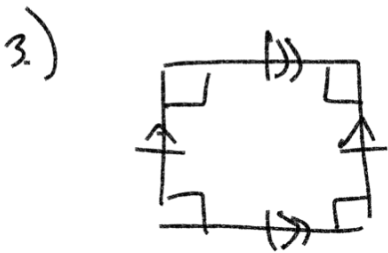
Name: Parallelogram  
- Quadrilaterals



Name: Rectangle  
quadrilateral  
parallelogram



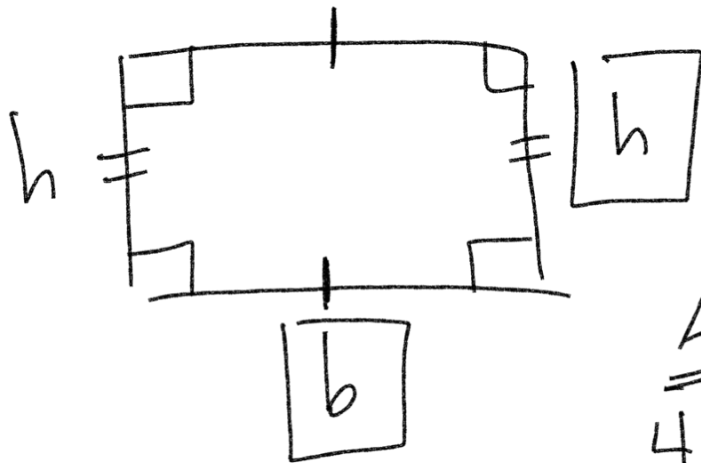
Name: kite  
quadrilateral



Name: Square  
quadrilateral  
parallelogram  
rectangle → all angles equal  
rhombus → all sides equal

Area

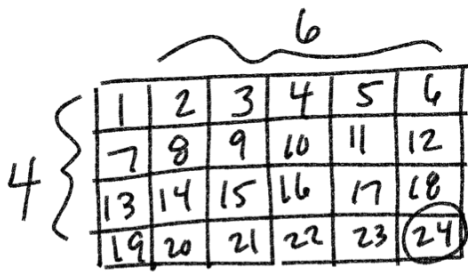
b



$$\text{Area} = \text{base} * \text{height}$$

Area =

$$4 * 6 = 24 \text{ square units}$$

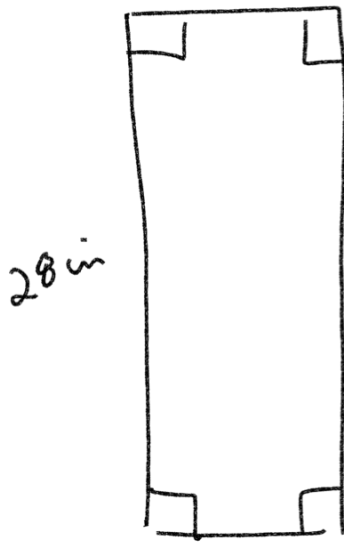


$$24 \text{ units}^2$$

$$4 \text{ in} * 6 \text{ in} = 24 \text{ in}^2$$

12 in

1.)



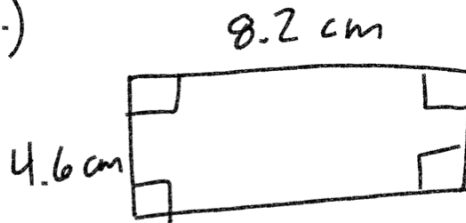
$$\text{Area} = 12 \text{ in} * 28 \text{ in}$$

$$\underline{\underline{336 \text{ in}^2}}$$

$$\text{in} * \text{in} = \text{in}^2$$

$$4 * 4 = (4)^2$$

2.)

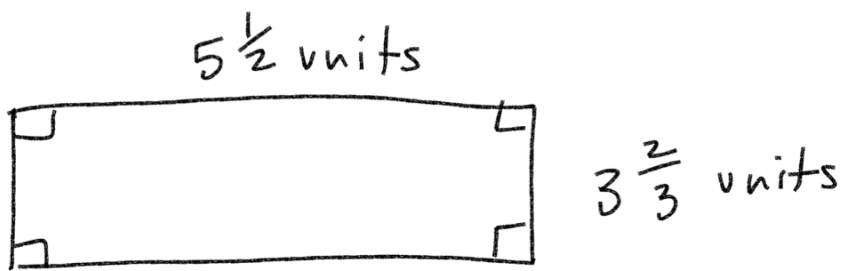


$$\text{Area} = 4.6 \text{ cm} * 8.2 \text{ cm}$$

$$\underline{\underline{37.72 \text{ cm}^2}}$$

$$\begin{array}{r} 8.2 \\ \times 4.6 \\ \hline 492 \\ + 3280 \\ \hline 3772 \end{array}$$

$$\underline{\underline{37.72 \text{ cm}^2}}$$



Area:  $5\frac{1}{2}$  units \*  $3\frac{2}{3}$  units

Must convert to improper fractions

$$5\frac{1}{2} \rightarrow \frac{(2*5)+1}{2} = \frac{10+1}{2} = \frac{11}{2}$$

$$3\frac{2}{3} \rightarrow \frac{(3*3)+2}{3} = \frac{9+2}{3} = \frac{11}{3}$$

$$\frac{11}{2} \text{ units} * \frac{11}{3} \text{ units}$$

$$\frac{121}{6} \text{ units}^2$$

$$20\frac{1}{6} \text{ units}^2$$

