

# Numbers and Operations in Base Ten

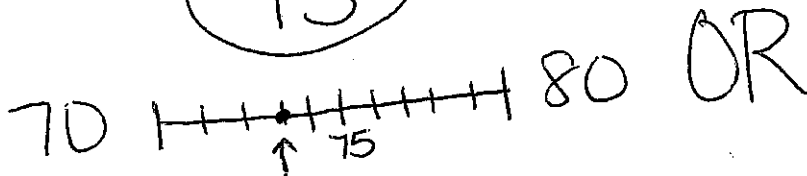
## ★ Rounding ★

### AND Numbers and Operations

clue words = about, estimate

nearest 10

73



circle place value

73



underline

neighbor

0, 1, 2, 3, 4

circle stays

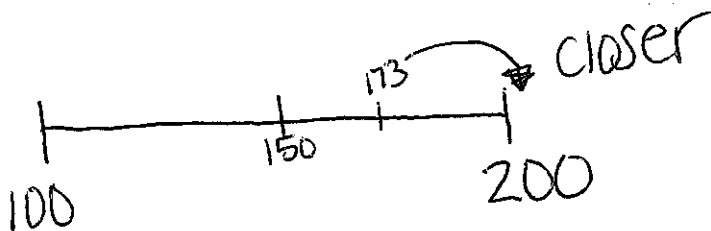
5, 6, 7, 8, 9

add 1 to the circled number

## ★ Rounding ★

nearest 100

173



↑ same idea for 2<sup>nd</sup> strategy



# Fractions

## ★ Equivalent Fractions ★

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$$

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

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

$$\frac{3}{4} = \frac{6}{8}$$

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

$$\frac{2}{3} = \frac{4}{6}$$

$$\frac{1}{4} = \frac{2}{8}$$

$$\frac{2}{2} = \frac{4}{4}$$

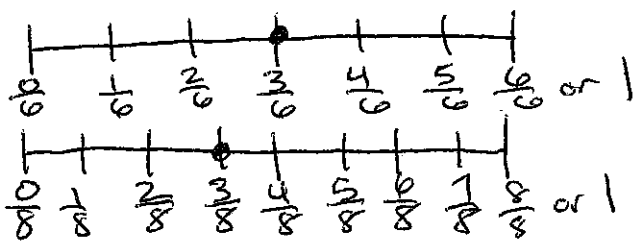
## ★ Compare Fractions ★

Example

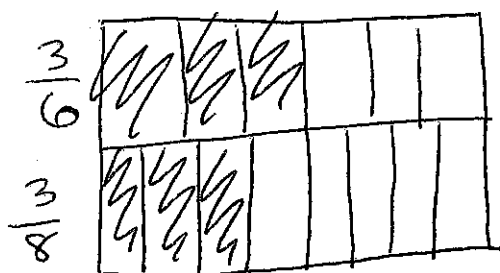
> < or =

$$\frac{3}{6} \bigcirc \frac{3}{8}$$

Number Line



Box Method

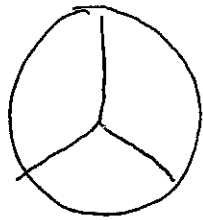


Cross Multiply

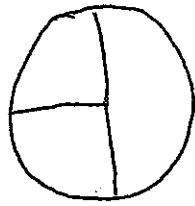
$$\begin{array}{r} 24 \\ 3 \\ \hline 6 \end{array} \quad \begin{array}{r} 3 \\ 8 \end{array}$$

1 Numerator = number of equal shares represented

2 Denominator = total number of equal shares



Equal



Not  
equal

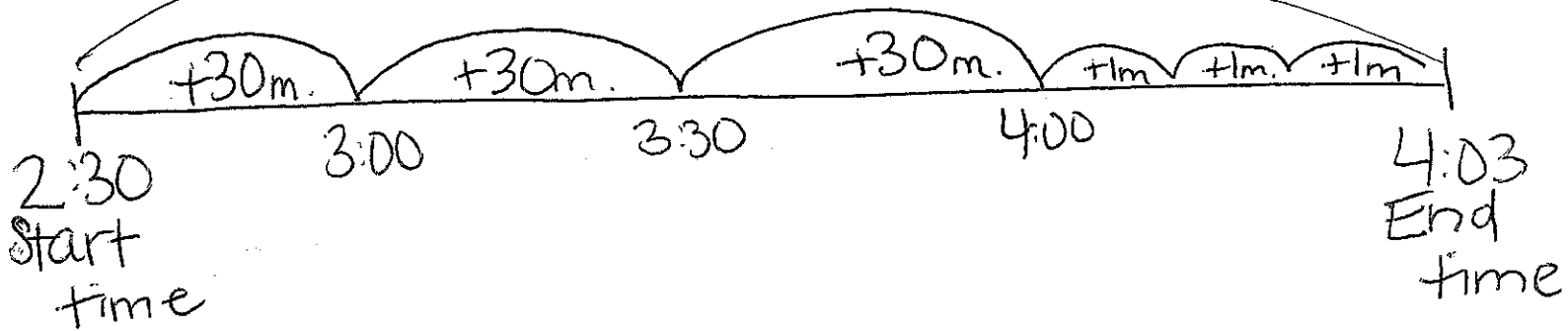
# Measurement and Data

★ Time ★

Number Line

$$2:30 + 1:33 = 4:03$$

Elapsed time or Duration



★ Measurement ★

1,000 grams = 1 Kilogram

1,000 milliliters = 1 liter

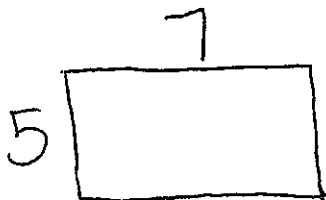
examples:

- 1 paperclip is about 1 gram
- 1 textbook is about 1 Kilogram
- 1 milliliter is about 5 drops
- 1 liter is about a small milk carton

★ Area ★

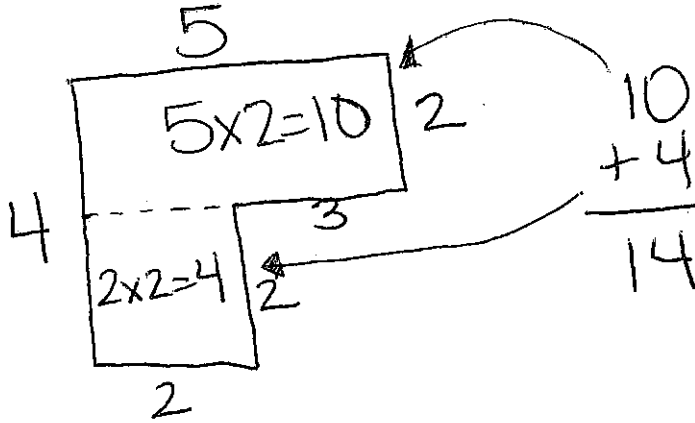
L x W

$$A = 5 \times 7 = 35 \text{ sq. units}$$



# ★ Area ★

## Irregular Shapes

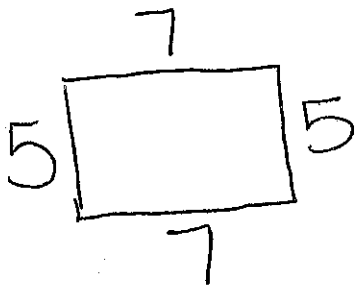


14 sq. units

To find the area split into two shapes

# ★ Perimeter ★

add up all sides



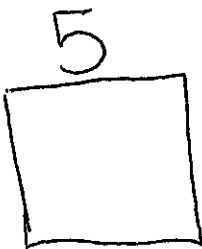
$$5+5+7+7$$

✓      ✓

$$10 + 14 = 24 \text{ units}$$

Example

OR



perimeter = 20 units

$$5 + \_ + \_ + \_ = 2C$$

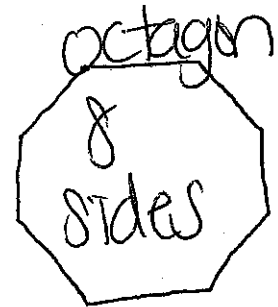
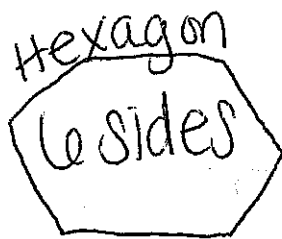
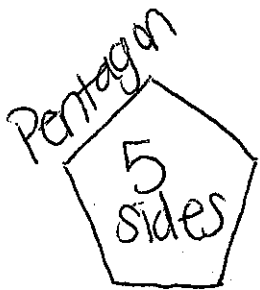
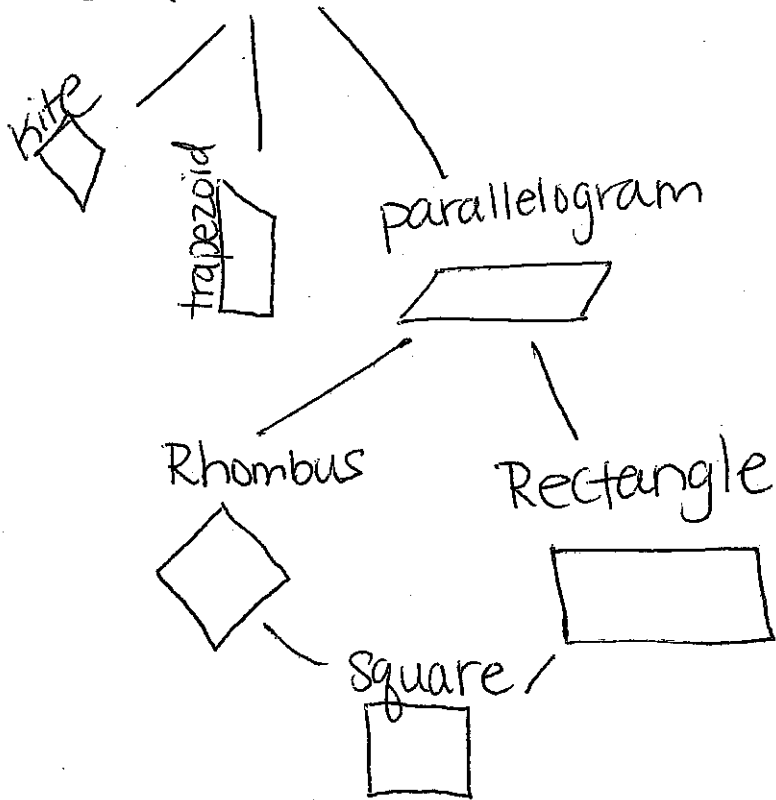
(\*hint → a square's sides are all equal)

AND

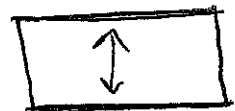
in a square or rectangle opposite sides are EQUAL

# Geometry

Quadrilateral  $\rightarrow$  a 4 sided shape



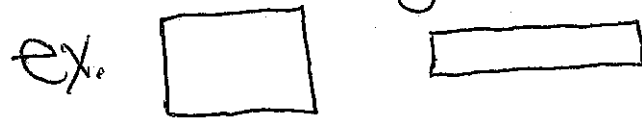
Parallel  $\rightarrow$  lines in a shape that will never meet



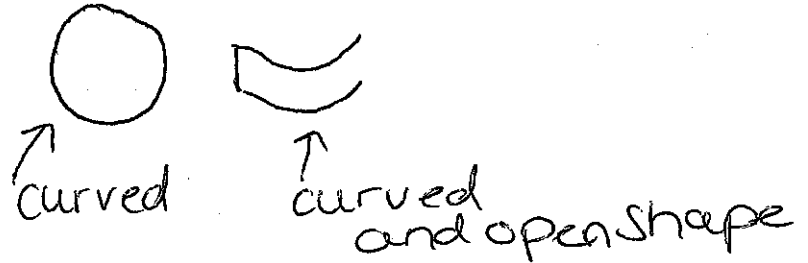
Parallelogram  $\rightarrow$  2 sets of parallel lines



Polygon → closed figure with straight lines



Not a polygon



Congruent → lines that are the same or equal

Attribute → characteristics that describe a shape

Right angle

