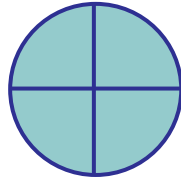
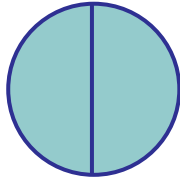


Name _____

Date _____

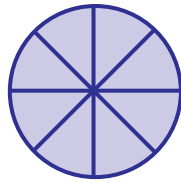
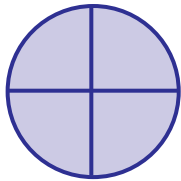
1) Use the pictures below to find the fraction that is equal to: $\frac{1}{2}$



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

$\frac{2}{4}$

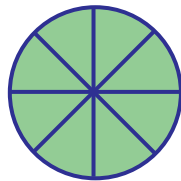
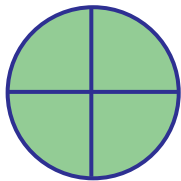
2) Use the pictures below to find the fraction that is equal to: $\frac{1}{4}$



$$\frac{1}{4} = \frac{?}{?}$$

$\frac{2}{8}$

3) Use the pictures below to find the fraction that is equal to: $\frac{3}{4}$



$$\frac{3}{4} = \frac{?}{?}$$

$\frac{6}{8}$

4) Does: $7 \times 22 = 7(20 + 2)$ yes no

5) Does: $8 \times 98 = 7(90 + 8)$ yes no

6) Does: $9 \times 48 = 9(48 + 1)$ yes no

7) Does: $6 \times 20 = 6(10 + 10)$ yes no

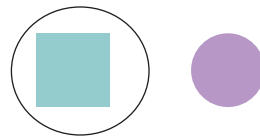
Emily really knows her double facts for addition and multiplication.
 Use the **commutative** and **associative properties** to rearrange the equations below to make them easier to solve for Emily (you do not need to solve the problem):

8) $(7 \times 6) \times 7 = \underline{(7 \times 7) \times 6}$

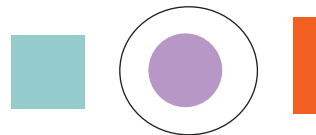
9) $(6 + 8) + 6 = \underline{(6 + 6) + 8}$

10) $4 \times (9 \times 4) = \underline{(4 + 4) + 9}$

11) Circle the shape that comes next?



12) Circle the missing shape?



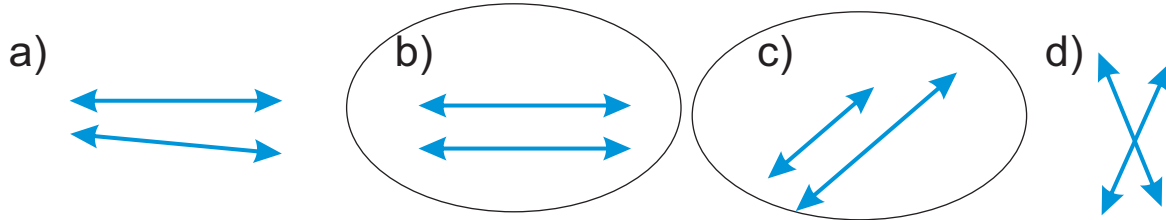
13) Finish the pattern for the following:

AACCBBAACCBBAACC B B

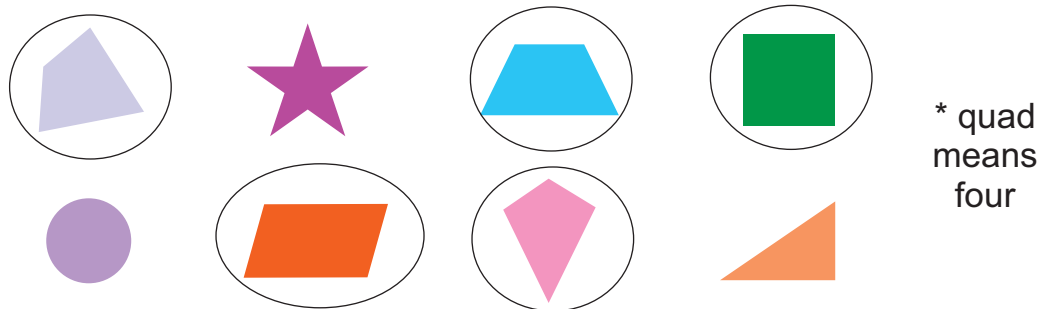
14) Finish the pattern for the following:

555335553355 5 3

15) Circle **each** set of lines that are parallel:



16) Circle **each** shape that is a quadrilateral:



Circle the name for the given shape:



Score: ____ / 19 = ____ %