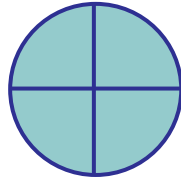
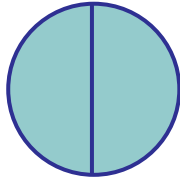


Name _____

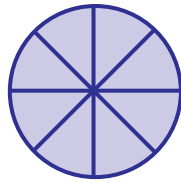
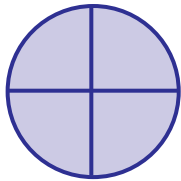
Date _____

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



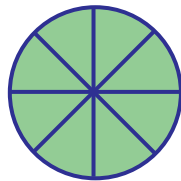
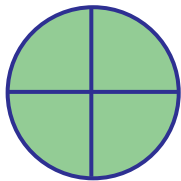
$$\frac{1}{2} = \frac{?}{4}$$

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



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

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



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

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) $(7 \times 6) \times 7 =$ _____

9) $(6 + 8) + 6 =$ _____

10) $4 \times (9 \times 4) =$ _____

11) Circle the shape that comes next?



12) Circle the missing shape?



13) Finish the pattern for the following:

AACCBBAACCBBAACC ___

14) Finish the pattern for the following:

555335553355 ___

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

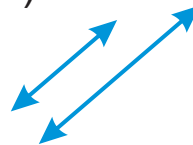
a)



b)



c)



d)



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



Circle the name for the given shape:

17)



rectangle

trapezoid

square

cut triangle

18)



rhombus

trapezoid

kite

circle

19)



rectangle

trapezoid

parallelogram

kite

Score: ____ / 19 = ____ %