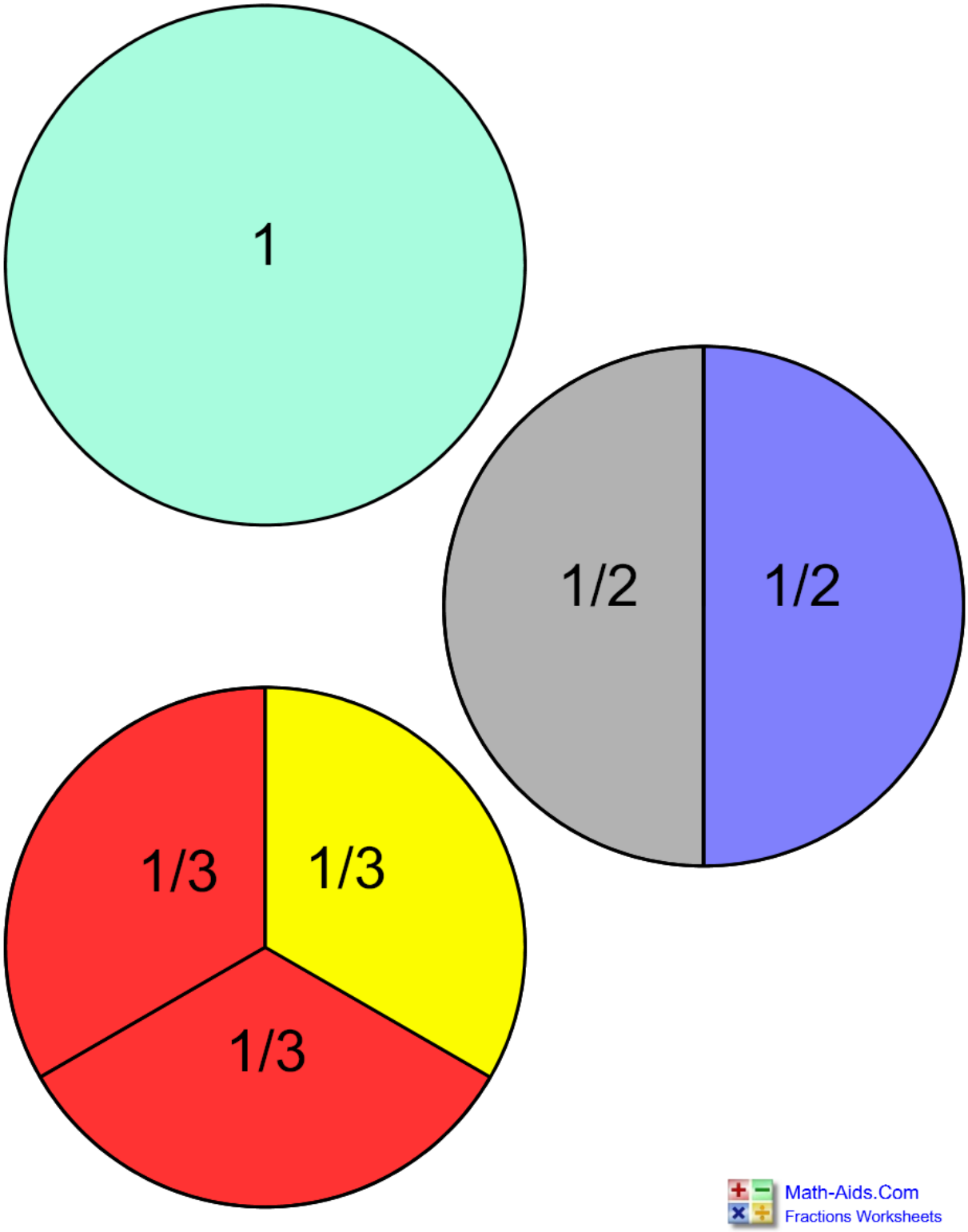

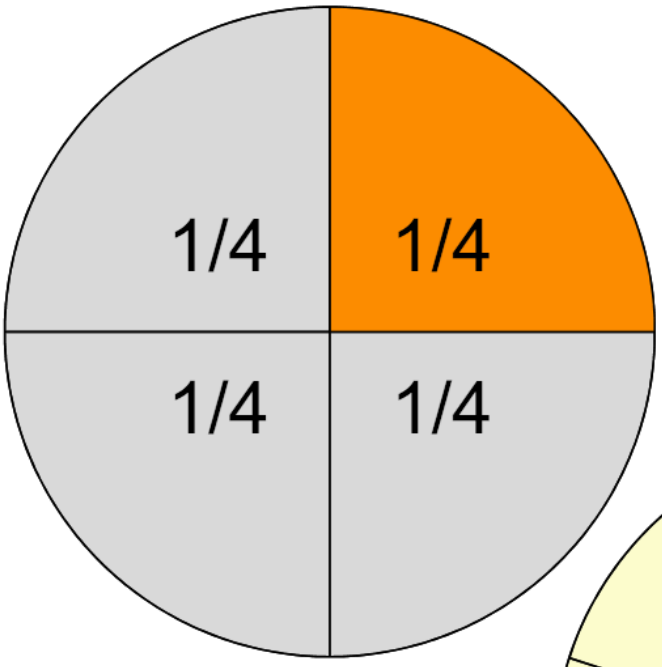

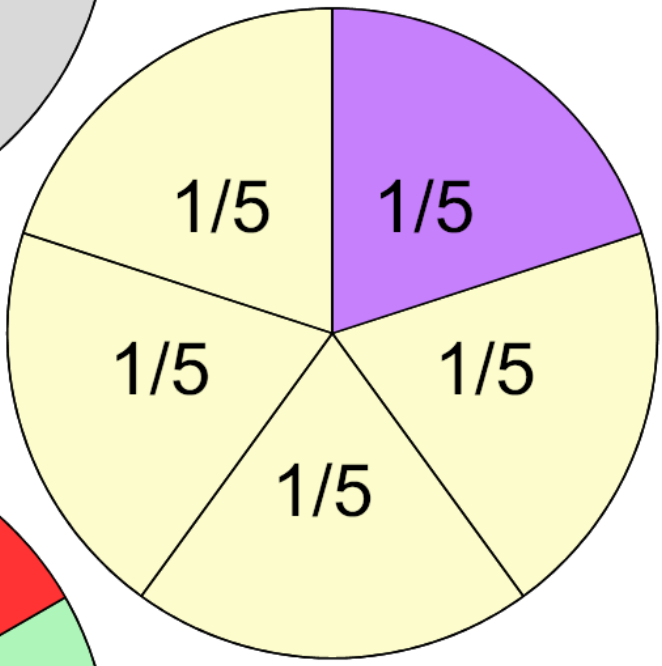

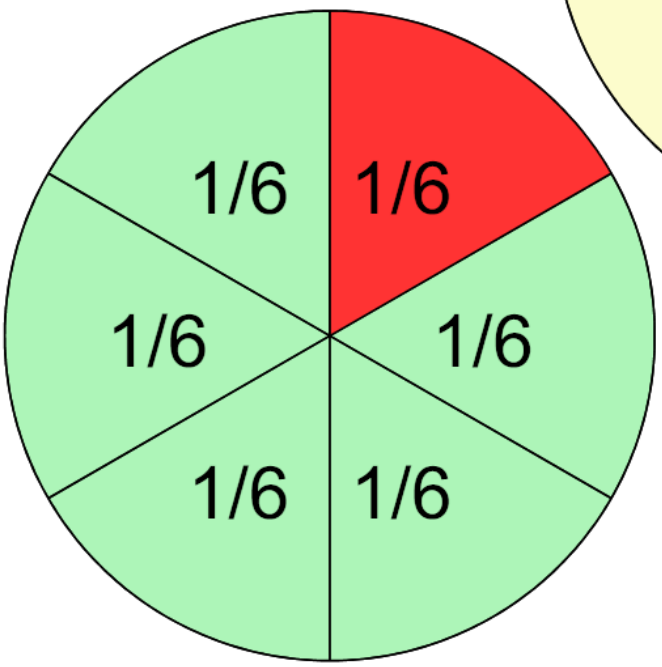

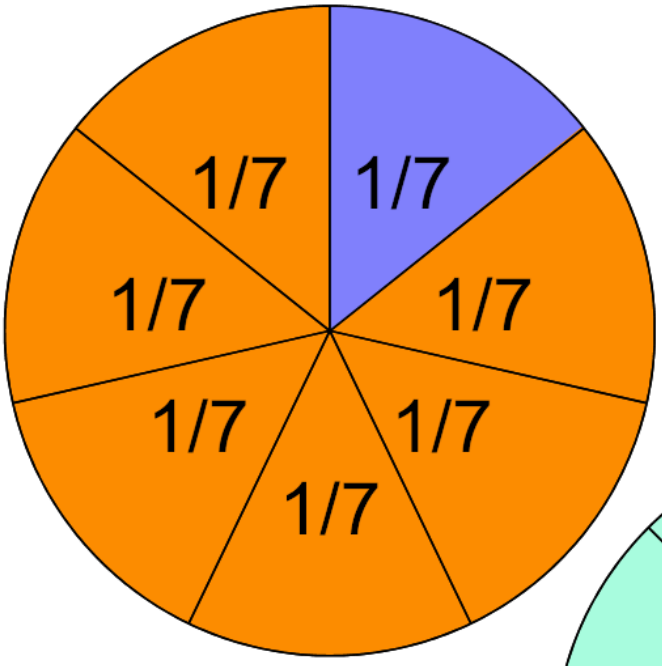

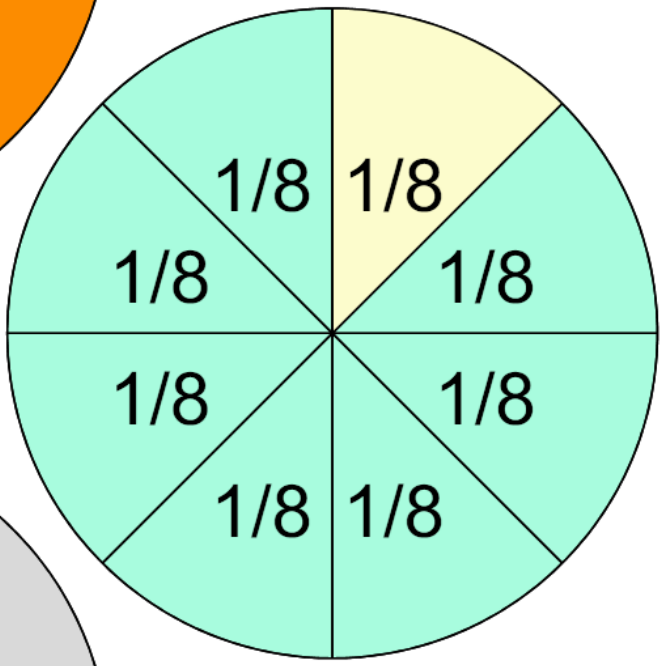

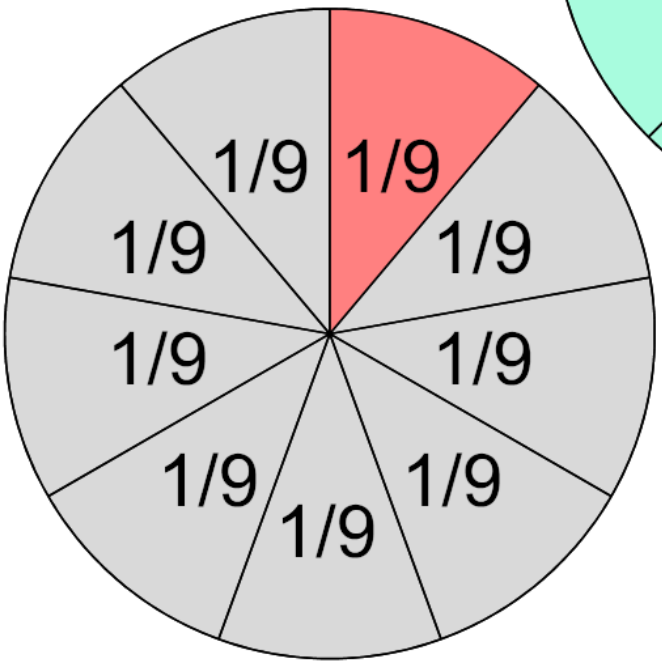

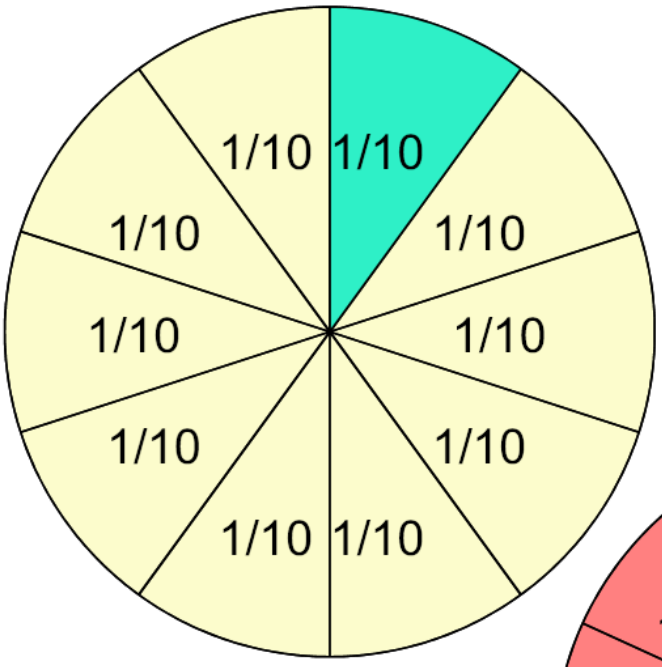

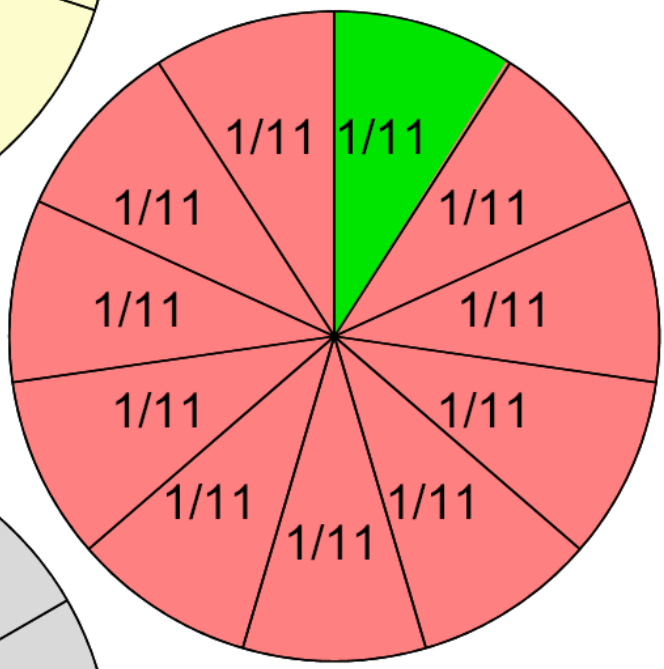

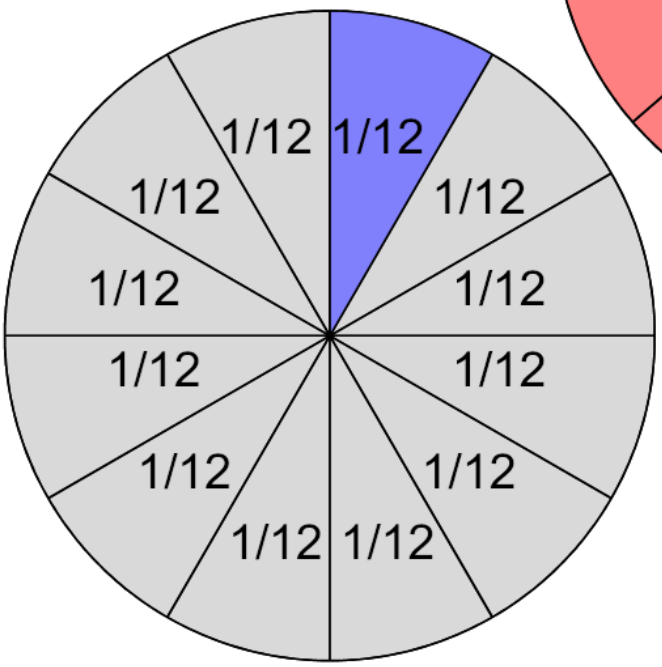

Notes for your notebook

FRACTIONS

Adding/subtracting-SAME denominator

$\frac{\text{numerator}}{\text{denominator}}$

$$\frac{2}{5}+\frac{1}{5}=\frac{3}{5}$$

Add the numerators

Denominator stays the same

We can only add/subtract fractions with the same denominator

Practice together-write in your notebook

$\frac{2}{9}+\frac{3}{9}=\frac{5}{9}$ $\frac{2}{7}-\frac{1}{7}=\frac{1}{7}$

Reducing Fractions

If a number will go into both the numerator and denominator, reduce the fraction

Are these fractions reducible?

$\frac{6}{9} = \frac{2}{3}$

$\frac{5}{7}$

Write these out in your notebook

1) $\frac{4}{11} + \frac{6}{11} =$

2) $\frac{2}{10} + \frac{6}{10} =$

1) $\frac{3}{11} - \frac{1}{11} =$

2) $\frac{3}{7} - \frac{2}{7} =$

Adding/subtracting-DIFFERENT denominators

If one denominator is a factor of another

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

If one denominator is a factor of another (ex: 3 goes into 6) then only change one of the fractions

Practice together- write in your notebook

$$\frac{1}{3}+\frac{2}{9}=$$

$$\frac{1}{5}-\frac{3}{10}=$$

Adding/subtracting-DIFFERENT denominators

If one denominator is not a factor of another

$$\frac{2}{3}+\frac{1}{4}=$$

If one denominator is NOT a factor of another (ex: 3 does not go into 4 evenly) then change both of the fractions

Practice together- write in your notebook

$$\frac{1}{5}+\frac{2}{3}=$$

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

1) $\frac{1}{2} + \frac{1}{3} =$

1) $\frac{1}{2} - \frac{2}{5} =$

Mixed numbers and improper fractions

$7\frac{3}{5} =$

$\frac{13}{2} =$

Multiplying Fractions

Multiply straight across

$$\frac{3}{7}\cdot\frac{4}{5}=$$

$$\frac{9}{10}\cdot\frac{1}{2}=$$

Dividing Fractions by Fractions

Multiply the 1st by the reciprocal of the second

$$\frac{3}{7} \div \frac{4}{5} =$$

$$\frac{9}{10} \div \frac{1}{2} =$$

Cross Cancelling

$$\left(\frac{3}{4}\right)\cdot\left(\frac{4}{5}\right)=$$

$$\left(\frac{5}{7}\right)\cdot\left(\frac{14}{15}\right)=$$

Order of Operations

PEMDAS

Parentheses

Exponents

Multiply/Divide

Add/Subtract

$$7 + 3 \cdot 8 - 4 =$$

1) $8 \times (13 \times 8 - 9^2) + 3$

2) $(20 - 6) \times (12 + 2) + 2^2$

1) $\left[(-8) \cdot (-2)^2 - (-8)\right] - (-2) \cdot (-6)$

3) $\left[(-2) \cdot (-3)^2 - (-2)\right] - (-3) \cdot (-10)$