1. Draw a picture to calculate
$$\frac{5}{6} \times \frac{1}{3}$$

$$\frac{\text{Spieces}}{18 \text{ total}} = \frac{5}{18}$$

a.
$$\frac{1}{2} \times \left(-\frac{1}{30}\right) = \frac{15}{4}$$

reduced fraction (Can be mixed or improper)

b.
$$0.3 + \frac{7}{20} = \frac{3}{7} \times \frac{20}{7} = \frac{2}{7}$$

c.
$$\frac{5}{8} \times \frac{6}{5} \times \frac{10}{9} = \frac{300 \div 6}{360 \div 6} = \frac{30 \div 6}{36 \div 6} = \frac{5}{6}$$
 d. $(-2) \div \left(-1\frac{1}{5}\right) \times \left(-1\frac{3}{4}\right) = -\frac{2}{1} \div -\frac{6}{5} \times -\frac{7}{4}$

d.
$$(-2) \div \left(-1\frac{1}{5}\right) \times \left(-1\frac{3}{4}\right) = -\frac{2}{7} \div -\frac{6}{5} \times -\frac{7}{4}$$

 $= -\frac{2}{7} \times -\frac{5}{6} \times \frac{7}{4} = -\frac{70 \div 2}{24 \div 2} = -\frac{35}{12}$

e.
$$\frac{5}{9} - \frac{7}{6} \times \frac{5}{21} = \frac{5}{9} - \frac{35}{126} \div 7$$

$$=\frac{5.2}{9.2}\frac{5}{18}=\frac{10}{18}-\frac{5}{18}$$
$$=\frac{5}{18}$$

g.
$$\left(\frac{7}{8}\right)^0 - \frac{2}{7} \times \left(3\frac{1}{3} - 4\frac{1}{2}\right) =$$

f.
$$\frac{2}{3} - \frac{5}{3} + 1\frac{3}{4} = \frac{2}{3} - \frac{5}{3} + \frac{7}{4}$$

 $= \frac{2}{3} - \frac{5}{3} \times \frac{4}{7} = \frac{2 \cdot 7}{3 \cdot 7} = \frac{20}{21}$
 $= \frac{14}{21} - \frac{20}{21} = -\frac{6 \cdot 3}{21 + 3} = \frac{2}{7}$

h.
$$\left(0.8 - \frac{12}{5}\right)^2 - 1\frac{1}{8} =$$

$$=\left(-\frac{8}{5}\right)^{2}-\frac{11}{10}=\frac{64.2}{25.2}\frac{11.5}{10.5}$$

$$=\frac{128}{50}-\frac{55}{50}=\frac{73}{50}$$

Mr. G is baking cookies for his Pre-Calculus 11 classes. He wants to bake 6 and a half batches of
cookies. Each batch needs 2 ½ cups of flour. How much flour does Mr. G need to bake all the cookies?
(Answer with a mixed fraction)

$$6\frac{1}{2} \times 2\frac{1}{3} = \frac{13}{2} \times \frac{7}{3} = \frac{91}{6} = 15\frac{1}{6} \text{ caps}$$

Mr. G has baked 6 ½ batches of cookies for his Pre-Calculus 11 classes. On the way to school, Mr. G drops 1 ½ batches of cookies on the ground.

Mr. G decides to split the rest of the cookies evenly between his three Pre-Calculus 11 classes. What fraction of a batch of cookies does each class get? (Answer with a mixed fraction)

$$\frac{6\frac{1}{2} - 1\frac{1}{6} = \frac{13 \cdot 3}{2 \cdot 3} \cdot \frac{7}{6} = \frac{39}{6} - \frac{7}{6} = \frac{32}{6} = \frac{16}{3} \text{ batches}$$

$$\frac{16}{3} \div 3 = \frac{16}{3} \cdot \frac{1}{3} = \frac{16}{9} = \boxed{\frac{7}{9} \text{ of a batch for each class}}$$

$$9 \boxed{16}$$