






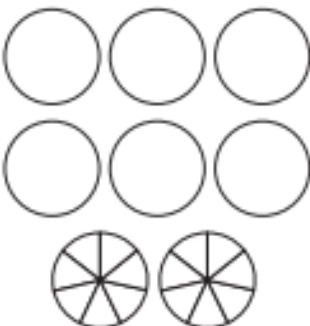
- 1) This diagram represents an integer being multiplied by a fraction. Shade in the diagram to show the correct answer and write it down as a simplified mixed number.

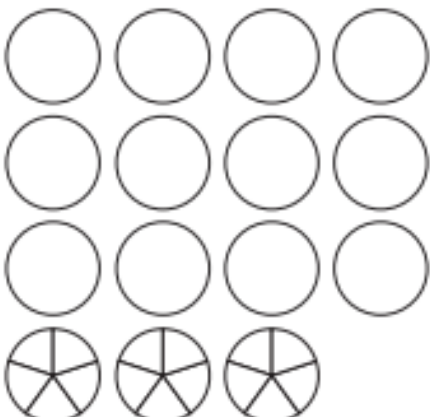
a)   $4 \times \frac{2}{3} = \frac{\square}{\square}$  or  $\square \frac{\square}{\square}$

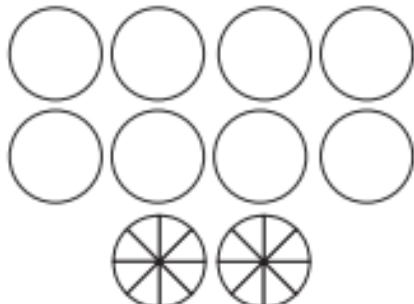
b)   $5 \times \frac{3}{5} = \frac{\square}{\square}$  or  $\square$

c)   $3 \times \frac{5}{8} = \frac{\square}{\square}$  or  $\square \frac{\square}{\square}$

- 2) This diagram shows the partitioning method of multiplying an integer by a mixed number. Shade in the diagram to show the correct answer and write it down as a simplified mixed number.

a)   $2 \times 3 \frac{4}{7} = \frac{\square}{\square}$  or  $\square \frac{\square}{\square}$

b)   $3 \times 4 \frac{3}{5} = \frac{\square}{\square}$  or  $\square \frac{\square}{\square}$

c)   $2 \times 4 \frac{6}{8} = \frac{\square}{\square}$  or  $\square \frac{\square}{\square}$

- 3) Solve these calculations by converting the mixed number to an improper fraction then multiplying:

a)  $3 \times 2 \frac{3}{7} = \frac{\square}{\square}$  or  $\square \frac{\square}{\square}$

b)  $4 \times 3 \frac{3}{4} = \square$

- 1) I am allowed to spend up to one hour watching TV in the evening. On each of Monday, Wednesday and Saturday, I spent 50 minutes out of my allowed hour watching TV.



Which diagram and calculation correctly represents the time I spent watching TV each night? Explain your reasoning.



$$3 \times \frac{5}{6} = \frac{15}{6} \text{ or } 2 \frac{3}{6} \text{ or } 2 \frac{1}{2} \text{ hours}$$



$$3 \times \frac{3}{4} = \frac{9}{4} \text{ or } 2 \frac{1}{4} \text{ hours}$$

- 2) Which calculation is the odd one out and why?

$$5 \times 2 \frac{4}{6} = \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array} \quad 5 \times 8 \frac{2}{3} = \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array} \quad 5 \times 4 \frac{4}{5} = \square$$

- 1) The school cook is working out how many potatoes she needs to buy to cook dinner for the school. She estimates that each class will eat  $3\frac{4}{7}$  kg of potatoes. She buys  $21\frac{3}{7}$  kg of potatoes altogether. How many classes is the school cook buying the potatoes for?



- 2) Using each of the digits 1 to 6 only once, investigate completing these multiplication statements.

- a)  $? \times ? \frac{?}{7} =$  greatest possible answer. (Don't make an improper fraction within a mixed number.)

- b)  $? \times ? \frac{?}{7} =$  mixed number answer with  $\frac{1}{2}$  as the fraction