Green Answers

1)

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

b) $5 \times \dfrac{3}{5} = \dfrac{15}{5}$ or 3

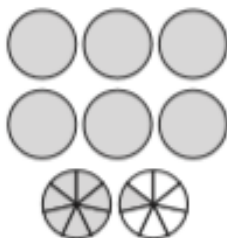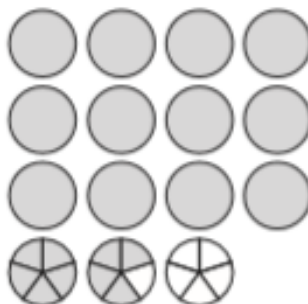c) $3 \times \dfrac{5}{8} = \dfrac{15}{8}$ or $1\dfrac{7}{8}$

2)

a)

b)

c)
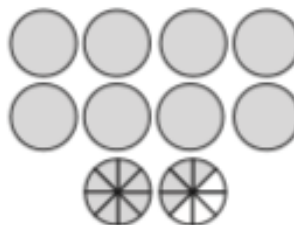
$2 \times 3\dfrac{4}{7} = 7\dfrac{1}{7}$ $3 \times 4\dfrac{3}{5} = 13\dfrac{4}{5}$ $2 \times 4\dfrac{6}{8} = 9\dfrac{1}{2}$

3)

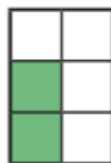a) $3 \times 2\dfrac{3}{7} = 3 \times \dfrac{17}{7} = \dfrac{51}{7}$ or $7\dfrac{2}{7}$

b) $4 \times 3\dfrac{3}{4} = 4 \times \dfrac{15}{4} = \dfrac{60}{4}$ or 15
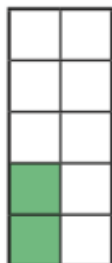
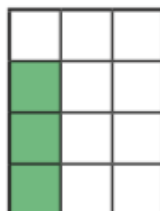1a) $\frac{3}{4} \times \frac{1}{2} = \frac{3}{4}$ of $\frac{1}{2}$

b) $\frac{2}{3} \times \frac{1}{2} = \frac{2}{6}$ or $\frac{1}{3}$

c) $\frac{2}{5} \times \frac{1}{2} = \frac{2}{10}$ or $\frac{1}{5}$

d) $\frac{3}{4} \times \frac{1}{3} = \frac{3}{12} = \frac{1}{4}$

Yellow Answers

1) Each complete whole represents 60 mins. Therefore each 1/6 portion of the whole is worth 10 mins $\frac{5}{6}$ of a whole is therefore worth 50 minutes.

This diagram is incorrect as each complete whole represents 60 minutes therefore $\frac{3}{4}$ of a whole will represent 45 mins.

2) $5 \times 2\frac{4}{6} = 13\frac{1}{3}$

$5 \times 8\frac{2}{3} = 43\frac{1}{3}$

$5 \times 4\frac{4}{5} = 24$

1) Area model B is correct as the model shows that when we find $\frac{1}{2}$ of $\frac{3}{5}$ we need to firstly split the model into fifths then split our model in half, shading in three of the new sections we have made. The area model will now show $\frac{3}{10}$ overall shaded in.

The fraction shown by model A is $\frac{3}{15}$ or $\frac{1}{5}$.

2) The correct picture is Olivia's as it shows $\frac{1}{4}$ of $\frac{1}{2}$. The calculation we would use to show how much pizza Imran ate would be $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$.

Red Answers

1) Answer: She is buying potatoes for 6 classes:

$$6 \times 3\frac{4}{7} = 21\frac{3}{7}$$

2) a) $6 \times 5\frac{4}{1} = 38$

b) Multiple answers are possible

$$3 \times 1\frac{2}{4} = 4\frac{1}{4} \qquad\qquad 5 \times 2\frac{3}{6} = 22\frac{1}{2}$$

1) Answers: $\frac{6}{1} \times \frac{5}{2} = 15$ and $\frac{5}{1} \times \frac{6}{2} = 15$

Answers: $\frac{1}{6} \times \frac{2}{5} = \frac{2}{30}$ or $\frac{1}{15}$ and $\frac{1}{5} \times \frac{2}{6} = \frac{2}{30}$ or $\frac{1}{15}$

Answers will vary, e.g. $\frac{4}{5} \times \frac{1}{3} = \frac{4}{15}$; $\frac{4}{5} \times \frac{1}{6} = \frac{4}{30}$ or $\frac{2}{15}$

2) Answers will vary. Examples may include:

$\frac{8}{10} \times \frac{5}{8} = \frac{40}{80} = \frac{1}{2}$

$\frac{4}{5} \times \frac{10}{16} = \frac{40}{80} = \frac{1}{2}$