





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.









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 ? ? ? = greatest possible answer. (Don't make an improper fraction within a mixed number.)

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



 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.



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.



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

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

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

$$5 \times 2 \frac{4}{6} =$$

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

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

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

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- ? × ? = mixed number answer with 1/2 as the fraction

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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 × 2
$$\frac{4}{6} = 13\frac{1}{3}$$

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

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

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

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

b) Multiple answers are possible

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

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



