Q1.

Karen makes a fraction using two number cards.

She says,



What could Karen's fraction be?

Give both possible answers.

 $\frac{\Box}{\Box} \quad \text{or} \quad \frac{\Box}{\Box}$

Q2.



Q3.

Join pairs of equivalent fractions.

One is done for you.



Q4.

Write the two missing values to make these equivalent fractions correct.



2 marks

2 marks

2 marks



Q9.

 $\frac{1}{3}$ of this square is shaded.



The same square is used in the diagrams below.

What fraction of this diagram is shaded?





What fraction of this diagram is shaded?





1 mark

1 mark

Q1.

Award TWO marks for both fractions correct as shown:



If the answer is incorrect, award **ONE** mark for one fraction correct. Accept fractions written in either order.

Up to 2

[2]

[1]

Q2.

Fractions completed as shown below:



All three fractions must be correct for the award of the mark.

Q3.

Award TWO marks for three correct pairs joined, as shown.



Award **ONE** mark for any two correct pairs joined.

Q4. 25 30

Page 4 of 7

[2]

Q5.

Fractions written in the correct order, as shown:

3	3	6
5	4	5

•

•

Accept the fraction joined to the correct box, rather than written in it.
Do not accept transcription errors or misreads for this question.

Q6.

(a) Indicates Yes and gives a correct explanation, eg:



[1]

1

1

• It is one ninth bigger
• If you divide
$$\frac{4}{9}$$
 by a $\frac{1}{3}$ you get $\frac{4}{3}$
• $\frac{4}{12}$

! Inaccuracies in diagrams

Throughout the question, condone provided the pupil's intention to divide into thirds, ninths and/or eighteenths is clearly shown, and the correct sections are shaded

Indicates No, or no decision made, but explanation clearly correct
Condone provided the explanation is more than minimal
Do not accept incomplete or incorrect explanation, eg:

- If you draw a pie chart for $\frac{4}{9}$, more than $\frac{1}{3}$ is shaded
- Put them into 27ths and $\frac{4}{27} > \frac{1}{27}$
- $\frac{1}{3} \times 3 = \frac{3}{9}$

- (b) Indicates **No** and gives a correct explanation, eg:
 - The fractions are equal; if you multiply the numerator and denominator by the same number the fractions are equivalent
 - $\cdot \quad \frac{4}{9} = \frac{8}{18}$
 - $\frac{4}{9} \times 2 = \frac{8}{9} \text{ not } \frac{8}{18}$

•
$$\frac{8}{18} \div 2 = \frac{4}{18}$$
 which is $\frac{2}{9}$ not $\frac{4}{9}$

- To double the fraction, you don't double the numerator and the denominator, you just double the numerator
- To halve the fraction, you don't halve the denominator, only the numerator Accept minimally acceptable explanation, eg:
 - Equal
 - Equivalent
 - Same

•
$$\frac{4}{9}$$
 is half of $\frac{8}{9}$

•
$$\frac{4}{18}$$
 is half of $\frac{8}{18}$

- You only double the top number
- You only halve the top number

Indicates Yes, or no decision made, but explanation clearly correct
Condone provided the explanation is more than minimal
Do not accept Incomplete explanation, eg

If you double the top and the bottom number of

