

Name _____ Date _____

Stage 8 End of Unit 7 Test

- 1 Use division to convert $\frac{5}{8}$ into a decimal.

[2]

- 2 Here are five fraction cards.

A $\frac{3}{5}$	B $\frac{2}{9}$	C $\frac{1}{6}$	D $\frac{7}{20}$	E $\frac{4}{15}$
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- a Write down which of these fractions are

i terminating decimals _____

ii recurring decimals. _____

[1]

- b Convert all the fractions to decimals.

[5]

- c Write the fractions in order of size starting with the smallest.

[1]

3 Write the correct sign, = or \neq , between each pair of fractions.

a $5\frac{1}{3}$ — $\frac{48}{9}$

b $-\frac{23}{5}$ — $-4\frac{4}{5}$

[2]

4 Write the correct inequality, < or >, between each pair of fractions.

a $7\frac{3}{4}$ — $\frac{61}{8}$

b $-\frac{55}{12}$ — $-4\frac{1}{2}$

[2]

5 Three brothers sat a science test on the same day.

Abe scored $\frac{18}{25}$, Brad scored $\frac{14}{20}$ and Carlos scored 71%.

Who had the highest score? Show all your working.

[3]

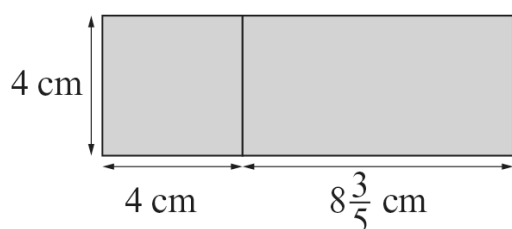
6 Work out these subtractions. Show all the steps in your working.

a $6\frac{2}{3} - 2\frac{5}{12}$ _____

b $8\frac{3}{4} - 3\frac{4}{5}$ _____

[4]

- 7 The diagram shows a square joined to a rectangle.



Work out

- a an estimate for the area of the shape

[2]

- b the accurate area of the shape.

[2]

- 8 You can use this formula to work out the average speed of a car in kilometres per hour (km/h), when you know the distance it has travelled and the time it has taken.

$$\text{Speed} = \text{distance} \div \text{time}$$

Work out the average speed of a car that travels 45 km in $\frac{3}{5}$ of an hour.

[2]

- 9 In a box of chocolates, $\frac{3}{8}$ have a caramel filling, $\frac{2}{5}$ have a nut filling and the rest have a coffee filling.

What fraction of the chocolates in the box have a coffee filling?

[3]

- 10 Work these out.

a $\frac{11}{20} - \left(\frac{3}{10} - \frac{1}{5} \right)$

b $\left(\frac{1}{3} + \frac{1}{6} \right) \times \left(\frac{7}{8} - \frac{1}{8} \right)$

[4]

[TOTAL: 33 Marks]

END OF TEST