

Name: Solutions

Date: _____

Class: _____

Baldivis
Secondary College**Year 7 Mathematics****Mini-Test 4, 2018****Topic - Fractions**

/ 26

%

Total Time: 30 min

Weighting: 5 %

Equipment: Page of notes (NO CALCULATOR)

Question 1**5 marks**

Match the definition on the left-hand side with the correct word on the right-hand side by drawing a line between each one:

A fraction where the numerator is equal to, or larger than the denominator.
A fraction consisting of a whole number and a proper fraction.
The top number in a fraction. It shows how many parts we have.
A fraction where the numerator is smaller than the denominator.
The bottom number in a fraction. It shows how many equal parts the item is divided into.

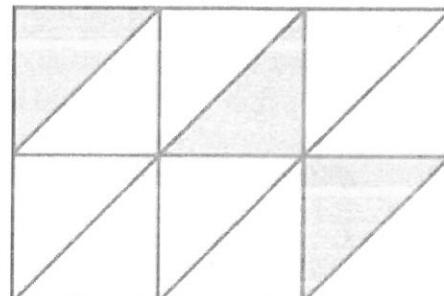
Improper fraction	✓
Denominator	✓
Proper Fraction	✓
Mixed Number	✓
Numerator	✓

Question 2**1 mark**

What fraction of this shape is shaded? Put the answer in its simplest form.

$$\frac{3}{12} = \frac{1}{4}$$

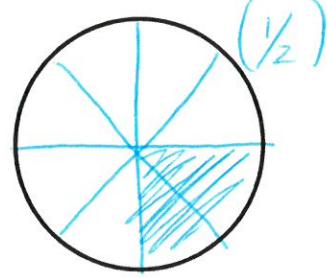
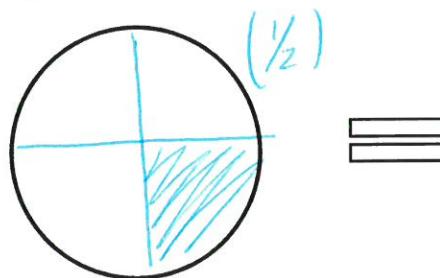
$$\left(\frac{1}{2}\right) \quad \left(\frac{1}{2}\right)$$



Question 3

1 mark

Using the following diagrams colour in two fractions that are equivalent to each other.

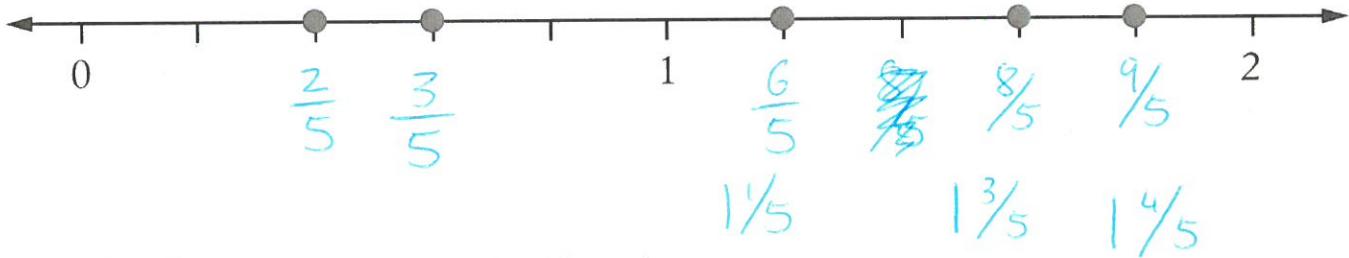


Any answer

Question 4

8 marks

- a) Write the fractions marked by a dot on the number line:



- b) Write the following fractions from smallest to largest:

$$\begin{array}{c} \frac{2}{5} \quad \frac{3}{10} \quad \frac{3}{5} \quad \frac{4}{20} \\ 0.4 \quad 0.3 \quad 0.6 \quad 0.2 \\ \frac{4}{20}, \frac{3}{10}, \frac{2}{5}, \frac{3}{5} \end{array}$$

Question 5

11 marks

Evaluate the following. Make sure to leave all answers as proper or mixed fractions. If possible, simplify your answer.

$(\frac{1}{2})$ $(\frac{1}{2})$

✓ a) Find the sum of $\frac{2}{3}$ and $\frac{2}{3} = \frac{4}{3} = 1\frac{1}{3}$

✓ b) Find the difference between $\frac{5}{8}$ and $\frac{3}{8}$

$$\frac{2}{8} = \frac{1}{4}$$

✓ c) $\frac{1}{4} + \frac{2}{3} = \frac{3}{12} + \frac{8}{12} = \frac{11}{12}$

✓ d) $\frac{5}{6} - \frac{3}{12} = \frac{10}{12} - \frac{3}{12} = \frac{7}{12}$

✓ e) $2\frac{3}{5} + \frac{4}{5} = \frac{13}{5} + \frac{4}{5} = \frac{17}{5} = 3\frac{2}{5}$

✓ f) $\frac{2}{3} + \frac{1}{4} - \frac{2}{5} = \frac{40}{60} + \frac{15}{60} - \frac{24}{60} = \frac{31}{60}$

✓ g) $\frac{2}{5} \times \frac{4}{7} = \frac{8}{35}$

$$\frac{55}{60} - \frac{24}{60} = \frac{31}{60}$$

✓ i) $7\frac{1}{2} \div 5\frac{5}{6} = \frac{15}{2} \times \frac{6}{36} = \frac{90}{252} = \frac{5}{14}$

✓ h) $\frac{1}{2} \div \frac{5}{8} = \frac{1}{2} \times \frac{8}{5} = \frac{8}{10} = \frac{4}{5}$

$(\frac{1}{2})$ $(\frac{1}{2})$