



Mark

10

Subject: Mathematics

First Semester / Quiz 1

Name: Answers

Grade 8 CS ()

Date:

Question 1

4 marks

Work out the following without using a calculator. Show all the steps of your working and give your answer as a fraction in its simplest form.

<p>a) $\frac{3}{25} \times \frac{5}{6} = \frac{15}{150} = \frac{1}{10}$</p>	<p>b) $8 + 6\frac{3}{7} \times 2\frac{5}{15} =$ $= 8 + \frac{45}{7} \times \frac{35}{15} =$ $= 8 + 15 =$ $= 23$</p>
<p>c) $(1\frac{2}{9})^2 =$ $= (\frac{11}{9})^2 = \frac{11}{9} \times \frac{11}{9} =$ $= \frac{121}{81} = 1\frac{40}{81}$</p>	<p>d) $-3\frac{3}{4} \div \frac{5}{8} =$ $= -\frac{15}{4} \times \frac{8}{5} =$ $= -6$</p>



Question 2

2 marks

Solve the following without using a calculator. Show all the steps of your working and give your answer as a fraction in its simplest form.

A plank of wood is 3 m in length. How long will it be if I cut $\frac{5}{8}$ m from it?

$$\frac{3 \times 8}{1 \times 8} - \frac{5}{8} = \frac{24}{8} - \frac{5}{8} = \frac{19}{8} = 2 \frac{3}{8} \text{ m}$$

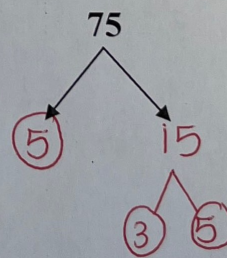
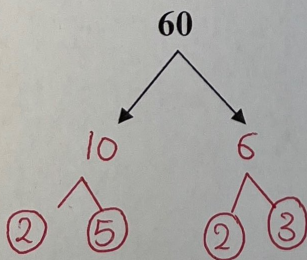
Question 3

4 marks

a) Find the factors of 84

Factors of 84 are: 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42,
84

b) Find the HCF of 60 and 75



$$60 = 2^2 \times 3 \times 5$$

$$75 = 3 \times 5^2$$

$$\text{HCF} = 3 \times 5 = 15$$