Maths Assignment Term 3

Grade 8



Instructions

1. Complete all the sections as best as you can.
2. Remember to work neatly and write all your steps down.
3. Use a ruler.
4. Write your answers on a clean sheet of paper.
5. Make sure to number your answers correctly.

Section 1: Common Fractions

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1. Complete these calculations without using a calculator:

a. $6\frac{6}{15} + 12\frac{13}{18} - 5\frac{17}{36}$ [4]

b. $2\frac{9}{15} \times 3\frac{6}{7} \div 1\frac{12}{42}$ [4]

c. $\sqrt{\frac{36}{100}} + \left(\frac{3}{5}\right)^2 - \sqrt[3]{\frac{27}{64}}$ [4]

2. A catering company has a sale on.

a. If they sell 24 of their 80 cutlery sets on Friday, what percentage of cutlery sets did they sell? [1]

b. The original price of the cutlery sets was R599. They are on sale for R399. What is the percentage increase or decrease in price? [2]

c. If the catering company sells 30% of their total stock for R150 000. How much is their total stock worth? [2]

d. After the sale, the price of a set of mugs is increased from R50 to R70. What is this percentage increase in price? [2]

Section 2: Decimal Fractions

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1. Say which of the following numbers is the biggest: [1]

   6,412 6,0968 6,6925 6,4556

2. Give the place value for each of the underlined values given below: [2]

   a. 17,9<u>9</u>3

   b. 4,360<u>5</u>

3. Round off these numbers to 2 decimal places: [2]

   a. 0,1616

   b. 81,58923

4. Do the following calculations without using your calculator

   a. 46,6215 + 30,3057 – 9,8643 [3]

   b. 2,169 x 18,3 [3]

5. A square has a side with a length of 4,41m.
   What is the area of the square? [2]

6. Re-draw and complete the table below on your answer page: [4]

Decimal	Fraction	Percentage
0,01		
	$\frac{1}{8}$	
		35%
0,33		

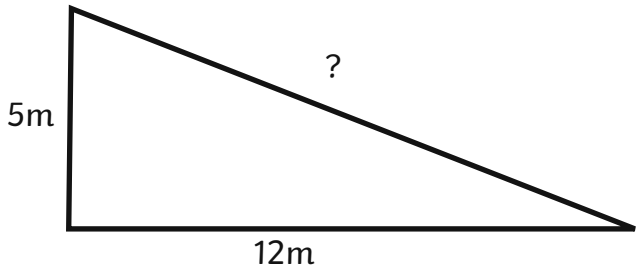
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Section 3: Pythagoras

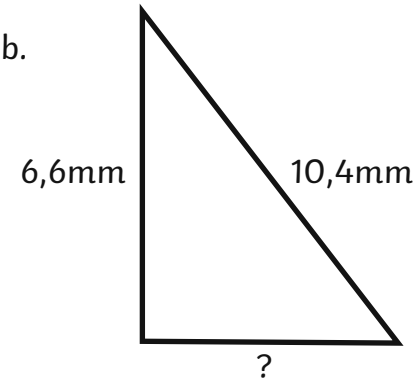
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1. Find the missing sides of these right-angled triangles:

a. [2]



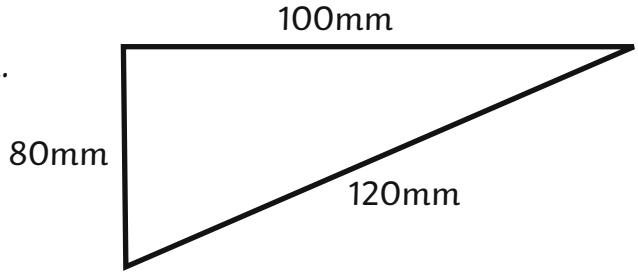
b. [2]



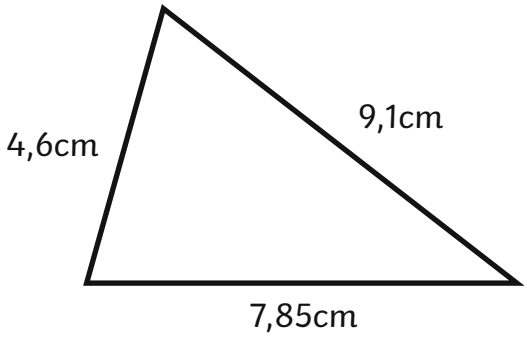
2. A rectangular farm is divided into two triangles by drawing a diagonal line from corner to corner. The shorter side of the rectangle is 120m long and the longer side is 160m long. How long is the diagonal line? [3]

3. Given the triangles below, use the theorem of Pythagoras to prove whether they are right-angled triangles or not. [3]

a. [2]



b. [2]



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