



Half Yearly Examinations 2020

YEAR 10

MATHEMATICS
Non-Calculator Paper

TIME: 20 minutes

Mark

DO NOT WRITE ABOVE THIS LINE

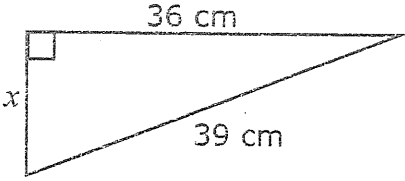
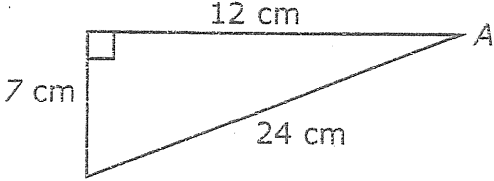
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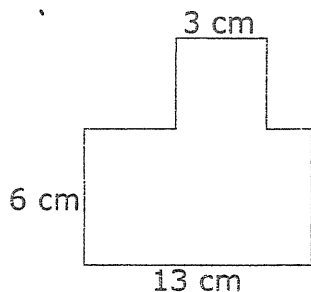
Class: _____

Instructions to Candidates

- Answer ALL questions.
- This paper carries a total of 20 marks.
- Calculators and protractors are NOT ALLOWED.

No.	Question	Space for Working
1.	<p>Write $2^4 \times 2^2 \times 2$ as a single number in index form.</p> <p style="text-align: right;">Ans: _____</p>	
2.	<p>Which one numbers of the following is a prime number ?</p> <p>51 ; 57 ; 61 ; 91</p> <p style="text-align: right;">Ans: _____</p>	
3.	<p>Round the number 10 672.58 correct to 3 significant figures.</p> <p style="text-align: right;">Ans: _____</p>	
4.	<p>Work out the value of: $3\frac{1}{3} - 2\frac{1}{2}$</p> <p style="text-align: right;">Ans: _____</p>	
5.	<p>Write 0.05 as a fraction in its simplest form.</p> <p style="text-align: right;">Ans: _____</p>	
6.	<p>B is the reciprocal of A. What is the value of $A \times B$?</p> <p style="text-align: right;">Ans: $A \times B =$ _____</p>	
7.	<p>Write seventeen million four hundred thousand as a number in standard form.</p> <p style="text-align: right;">Ans: _____</p>	
8.	<p>Mandy and Craig share €48 in the ratio 3:5. How much more does Craig have than Mandy?</p> <p style="text-align: right;">Ans: _____</p>	

9.	How much is $\frac{3}{4}$ of $1\frac{1}{5}$?	
	Ans: _____	
10.	Simplify: $7x - 3y + 2x - y$	
	Ans: _____	
11.	Factorise: $3x + 12$	
	Ans: _____	
12.	What is the length of the side marked x ?	
		
	Ans: _____	
13.	Write $\frac{19}{20}$ as a decimal.	
	Ans: _____	
14.	Write the value of $\tan A$ as a fraction.	
		
	Ans: _____	
15.	Write the ratio 5 cm : 3 m in the form 1 : k.	
	Ans: _____	

16.	<p>Calculate the mean mass these four bags of cement: 17.1 kg ; 15.4 kg ; 12.9 kg and 14.6 kg.</p> <p>Ans: _____</p>	
17.	<p>Underline the formula for the area of a trapezium:</p> <p>$A = \pi r^2$; $A = \frac{h(a+b)}{2}$; $A = bh$; $A = \frac{bh}{2}$</p>	
18.	<p>The shape shows a square on top of a rectangle. Calculate the perimeter of the shape.</p>  <p>Ans: _____</p>	
19.	<p>A bus leaves the terminus every 12 minutes. How many buses leave the terminus from 08:00 to 12:00?</p> <p>Ans: _____</p>	
20.	<p>The average speed of a truck is 36 km/h. How far does the truck travel in 25 minutes?</p> <p>Ans: _____</p>	