

Half Yearly Examinations 2020

YEAR 10

MATHEMATICS
Non-Calculator Paper

TIME: 20 minutes

Mark

DO NOT WRITE ABOVE THIS LINE

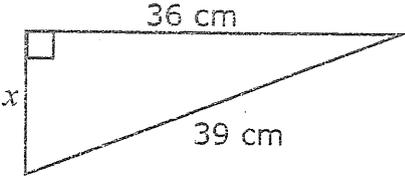
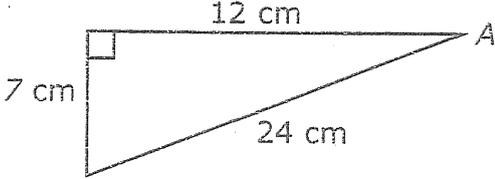
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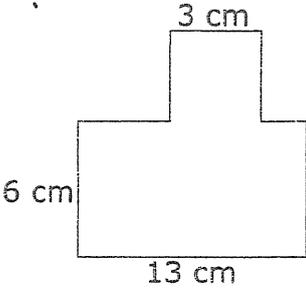
Class: _____

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.	Write $2^4 \times 2^2 \times 2$ as a single number in index form. Ans: _____	
2.	Which one numbers of the following is a prime number ? 51 ; 57 ; 61 ; 91 Ans: _____	
3.	Round the number 10 672.58 correct to 3 significant figures. Ans: _____	
4.	Work out the value of: $3\frac{1}{3} - 2\frac{1}{2}$ Ans: _____	
5.	Write 0.05 as a fraction in its simplest form. Ans: _____	
6.	B is the reciprocal of A . What is the value of $A \times B$? Ans: $A \times B =$ _____	
7.	Write seventeen million four hundred thousand as a number in standard form. Ans: _____	
8.	Mandy and Craig share €48 in the ratio 3:5. How much more does Craig have than Mandy? Ans: _____	

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 style="text-align: right;">Ans: _____</p>	
17.	<p>Underline the formula for the area of a trapezium: $A = \pi r^2$; $A = \frac{h(a+b)}{2}$; $A = bh$; $A = \frac{bh}{2}$</p>	
18.	<p>The shape shows a square on top of a rectangle. Calculate the perimeter of the shape.</p> <div style="text-align: center;">  </div> <p style="text-align: right;">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 style="text-align: right;">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 style="text-align: right;">Ans: _____</p>	