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1

	Total marks	Number	Mean
Girls	^{1st} $6 \times 12 = 72$	6	12
Boys	^{4th} $100 - 72 = 28$	4	^{5th} $28 \div 4 = 7$
Whole Group	^{3rd} $10 \times 10 = 100$	^{2nd} $6 + 4 = 10$	10

$$\text{Mean} = \frac{\text{Total}}{\text{Number}}$$

Answer Boy's mean = 7

2

	Distance	Time	Speed
A to B	100	$100 \div 50 = 2$	50
B to C	$160 - 100 = 60$	$5 - 2 = 3$	$60 \div 3 = 20$
Whole Journey	$5 \times 32 = 160$	5	32

$$\text{Speed} = \frac{D}{T}$$

Answer Average speed from B to C = 20 mph

3

	Mass	Volume	Density
Hemisphere	160	$160 \div 80 = 2$	80
Cylinder	$4 \times 50 = 200$	4	50
Whole Shape	$160 + 200 = 360$	$4 + 2 = 6$	$360 \div 6 = 60$

$$\text{density} = \frac{M}{V}$$

Density of whole shape = 60 kg/m³

4

	Marks	Out of	%
Section A	$0.55 \times 80 = 44$	80	55
Section B	$0.70 \times 120 = 84$	120	70
Whole Test	$44 + 84 = 128$	$80 + 120 = 200$	$\frac{128}{200} \times 100 = 64$

$$\% = \frac{\text{Marks} \times 100}{\text{Total}}$$

Riya does not pass the test.