

Mini test answers

Pearson Edexcel GCSE Mathematics 1MA1 • L034

8 marks • Teacher use only • Lesson resources

REACH FOR THE STAR | GCSE MATHEMATICS

B = independent mark; M = method; A = accuracy dependent on the associated method. Accept equivalent exact values and valid alternative methods. If working or an explanation is requested, do not infer it from the answer alone. Otherwise a correct numerical answer earns the numerical method marks. Follow-through only where stated; no credit for repeating the same component.

M1 [1]

8π cm B1.

M2 [1]

9π cm² B1.

M3 [1]

$1/6$ B1.

M4 [2]

$(120/360) \times 18\pi$ M1; 6π cm A1.

M5 [3]

5π cm B1; $5\pi + 10$ cm B1; extra diameter 10 cm B1.

Feedback, assessment balance and sources

Reteach and reassess

If diameter is squared in πr^2 , halve it first. If a sector perimeter equals just its arc, trace both straight edges. If $\theta/180$ is used, compare a semicircle with the full 360° . Recheck $r=6$, $\theta=90^\circ$.

Use fresh questions after a delay. Record support used and the next independent check; a high immediate score alone is not mastery.

AO1 5 + AO2 2 + AO3 1 = 8 marks. Item AO judgements are local and require teacher review. This targeted set does not reproduce whole-paper weightings.

Selected content: G9 G17 G18. Specification Issue 2 and sample assessment general marking conventions. Original questions; no past-paper questions reproduced.

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