

# UOJMC Sample Test Answers — Year 10

## Question 1

- (a)  $100 \text{ cm}^2$
- (b) 20 cm
- (c) 50 cm
- (d) 1.25 cm
- (e)  $132.8125 \text{ cm}^2$

## Question 2

- (a) \$900
- (b) \$1881
- (c) \$5386.24

## Question 3

- (a) 35 mm
- (b) 5 mm
- (c) 42 mm

## Question 4

- (a) \$939
- (b) \$56
- (c)  $\frac{23}{59}$

## Question 5

- (a) 10.5 W
- (b) 14 V
- (c) 0.15 hours
- (d) 4 batteries

## Question 6

- (a) 2033
- (b) 2106
- (c) 2046

### Question 7

- (a) 36
- (b) 13
- (c) 120
- (d) 9
- (e) 204
- (f) 11

### Question 8

- (a) 5 and 7
- (b) 2 and 5
- (c) 7 and 13

### Question 9

- (a) (1, 2)
- (b) (-4, 1)
- (c) (3, -4)

### Question 10

- (a)  $a$
- (b)  $c$
- (c) 7.07

### Question 11

- (a)  $60^\circ$
- (b)  $\sqrt{3}$
- (c)  $\frac{\sqrt{3}}{2}$

### Question 12

- (a) 8 cubes
- (b) 24 cubes
- (c) 8 cubes

**Question 13**

- (a) 11
- (b)  $\frac{4}{11}$
- (c)  $\frac{2}{11}$
- (d)  $\frac{6}{11}$

**Question 14**

- (a)  $4 \text{ cm}^2$
- (b)  $9 \text{ cm}^2$
- (c)  $35 \text{ cm}^2$

**Question 15**

- (a) 7 cm
- (b) 11.5 cm
- (c) 7.2 cm

**Question 16**

- (a)  $\frac{1}{4}$
- (b)  $\frac{1}{13}$
- (c) 0.0045
- (d) 0.0067