

2.2 Answers

Answer 1

- (i) Tick ☐ y is directly proportional to square root x
- (ii) 10
- (iii) $y = 90$
- (iv) $y = 110$
- (v) INCREASE "More is More"

Answer 2

- (i) Tick ☐ y is inversely proportional to the square root of x .
- (ii) 16
- (iii) $y = 4$
- (iv) $y = 2$
- (v) DECREASE "More is Less"

Answer 3

- (i) Tick ☐ y is directly proportional to the square of x
- (ii) $\frac{2}{3}$
- (iii) $y = 6$
- (iv) $y = 24$
- (v) INCREASE "More is More"

Answer 4

- (i) Tick ☐ y is inversely proportional to the square of x .
- (ii) 12
- (iii) $y = 12$
- (iv) $y = 3$
- (v) DECREASE "More is Less"

Answer 5

- (i) Tick ☐ y is directly proportional to x
- (ii) 9
- (iii) $y = 45$
- (iv) $y = 126$
- (v) $x = 5$

Answer 6

- (i) Tick ☐ y is inversely proportional to x .
- (ii) 24
- (iii) $y = 3$
- (iv) $y = 0.5$
- (v) $x = 4$

Answer 7

$$y = 7\sqrt{x}$$

Answer 8

$$y = \frac{18}{x^2}$$

Answer 9

- (i) Tick ☐ y is directly proportional to square of m
 ☐ y is directly proportional to x
 ☐ y is inversely proportional to the square root of z
- (ii) 4
- (iii) $y = 70$

Answer 10

- (i) Tick ☐ y is directly proportional to square root of c
 ☐ y is directly proportional to w
 ☐ y is inversely proportional to the square of z
- (ii) 10
- (iii) $y = 120$

Answer 11

$$y = \frac{7v^2\sqrt{a}}{n}$$

Answer 12

$$y = 5x^3$$

$$y = 135$$