

1.4 Answers

1.4.1 Solutions (1.1 Examples)

- (i) Tick ☐ y is directly proportional to square root x
- (ii) 9
- (iii) $y = 63$
- (iv) INCREASE "More is More"

1.4.2 Solutions (1.2 Examples)

- (i) Tick ☐ y is inversely proportional to the square root of x .
- (ii) 20
- (iii) $y = 5$
- (iv) DECREASE "More is Less"

1.4.3 Solutions (1.3 Exercise)

Answer 1

- (i) Tick ☐ y is directly proportional to square root x
- (ii) 7
- (iii) $y = 21$
- (iv) $y = 35$
- (v) INCREASE "More is More"

Answer 2

- (i) Tick ☐ y is inversely proportional to the square root of x .
- (ii) 36
- (iii) $y = 12$
- (iv) $y = 3.6$
- (v) DECREASE "More is Less"

Answer 3

- (i) Tick ☐ y is directly proportional to the square of x
- (ii) 0.5
- (iii) $y = 8$
- (iv) $y = 18$
- (v) INCREASE "More is More"

Answer 4

- (i) Tick ☐ y is inversely proportional to the square of x .
- (ii) 100
- (iii) $y = 25$
- (iv) $y = 4$
- (v) DECREASE "More is Less"

Answer 5

- (i) Tick ☐ y is directly proportional to x
 (ii) 8
 (iii) $y = 48$
 (iv) $y = 4$
 (v) $x = 4$

Answer 6

- (i) Tick ☐ y is inversely proportional to x .
 (ii) 6
 (iii) $y = 3$
 (iv) $y = 0.5$
 (v) $x = 3$

Answer 7

$$y = 0.4\sqrt{x}$$

Answer 8

$$y = \frac{12}{x^2}$$

Answer 9

- (i) Tick ☐ y is directly proportional to square of m
 ☐ y is directly proportional to the square root of x
 ☐ y is inversely proportional to z
 (ii) 5
 (iii) $y = 9$

Answer 10

- (i) Tick ☐ y is directly proportional to square root of p
 ☐ y is directly proportional to q
 ☐ y is inversely proportional to the square of v
 (ii) 2
 (iii) $y = 22.5$

Answer 11

$$y = \frac{6m^2\sqrt{s}}{w}$$

Answer 12

$$y = 5x^3$$

$$y = 5000$$