

8.2 Answers

GCSE Mathematics Kinematics

Answer 1 $speed = \frac{distance}{time}$

Answer 2

- (i) 1000
- (ii) 1440 minutes

Answer 3

- (i) 900 seconds
- (ii) 360 metres
- (iii) more

Answer 4

- (i) 1620 seconds
- (ii) 3240 metres
- (iii) 3.24 km

Answer 5

- (i) 17 m/s
- (ii) 170 m

Answer 6

10.5 kg

Answer 7

- (i) acceleration
- (ii) distance

Answer 15 : 2 hours 45 minutes

Answer 8

- (i) 16 m/s
- (ii) 40 s
- (iii) 330m
- (iv) before
- (v) $(-) 0.4 \text{ m/s}^2$

Answer 9

$40 \times 13.25 = 530 \text{ km}$

Answer 10

- (i) 6
- (ii) 24
- (iii) 4

Answer 11

0.5

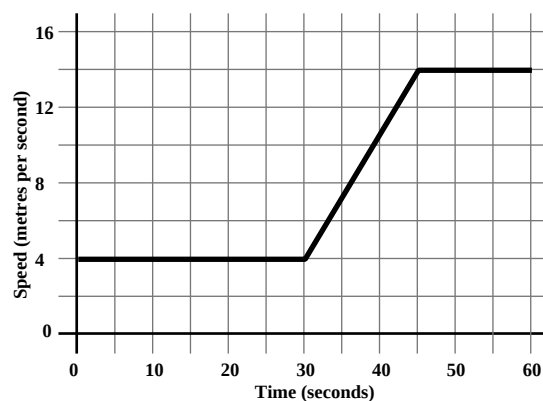
Answer 12

$5456 \div 7.75 = 704 \text{ km/h}$

Answer 13

- (i) $t = 20 \text{ s}$ and $t = 50 \text{ s}$
- (ii) $10 \div 30 = 0.333 \text{ m/s}^2$
- (iii) 490 m

Answer 14



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Teachers may obtain detailed worked solutions to the exercises by email from MHHShrewsbury@Gmail.com