



Speed of the Earth

NAME:

CLASS:

DATE:



Basic

1) How long is it from:

a) 3.25pm to 5.35pm?

b) 4am to 8.15am?

c) 2250m to 2335m?

2) Change the following times to hours and minutes:

a) 2.3 hours

b) 3.6 hours

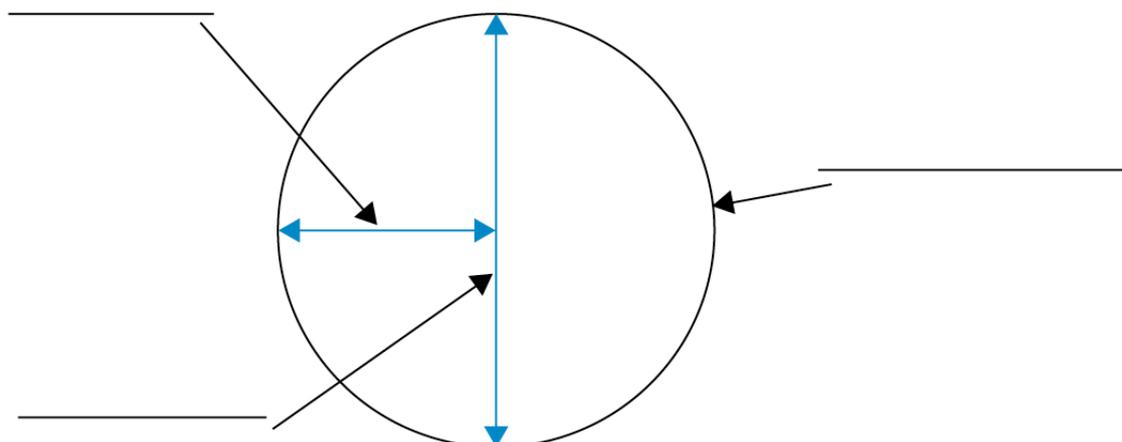
c) 0.125 hours

3) How far will a train go if it travels for three hours at 80mph?

4) What is the average speed of a journey of 160 miles that takes four hours?

5) How long will a journey take if a distance of 140km is covered at a speed of 70km per hour?

6) Label the following circle:





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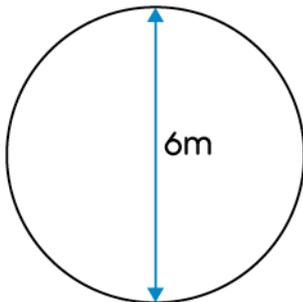


Core

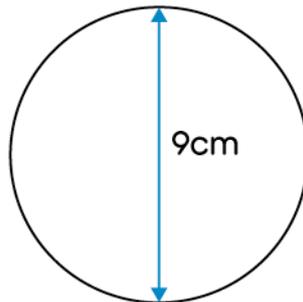
- 1) A runner covers a distance of 500 metres in 80 seconds. Calculate his average speed.
- 2) Calculate the average speed of an airplane that travels 363km in 2 hours, 20 minutes.
- 3) How long does it take to travel 238 miles at 68 miles per hour?
- 4) A snail can travel a distance of 0.0048 kilometres per hour (km/hr). What distance can the snail travel in five minutes?

5) Calculate the circumferences of the following circles:

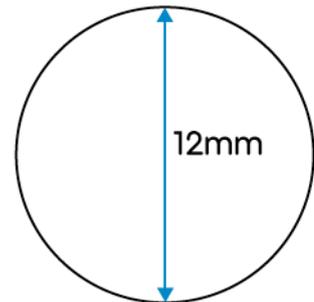
a)



b)

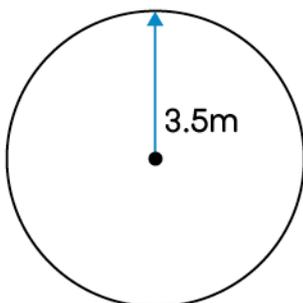


c)

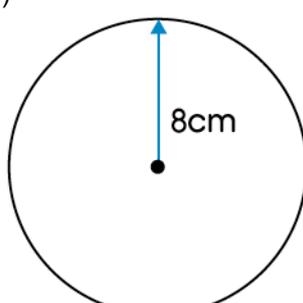


6) Calculate the areas of the following circles:

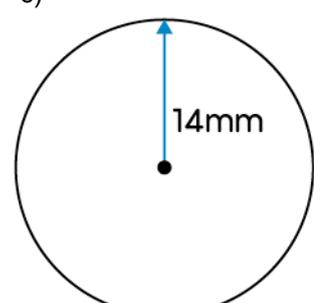
a)



b)



c)





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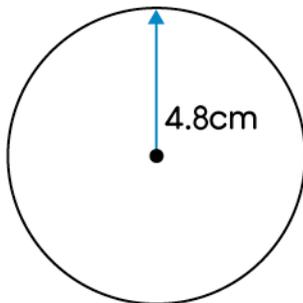
DATE:



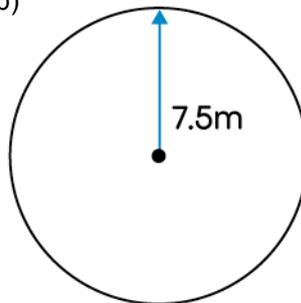
Advanced

1) Calculate the circumferences of the following circles:

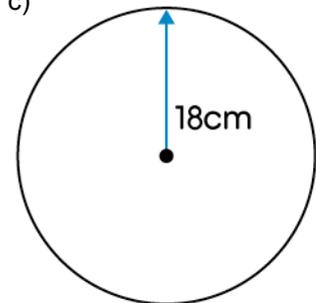
a)



b)

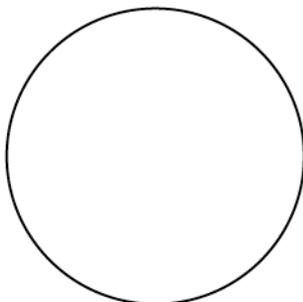


c)



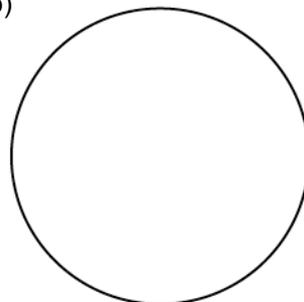
2) Calculate the diameters of the following circles, correct to one decimal place:

a)



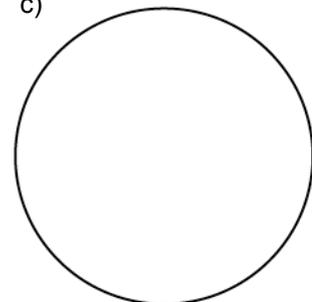
$$\text{Area} = 540\text{cm}^2$$

b)



$$\text{Area} = 85\text{m}^2$$

c)



$$\text{Area} = 175\text{m}^2$$

3) Convert the following to metres per second (m/s):

a) 70km/hr

b) 340km/hr

c) 260km/hr

4) Convert the following to kilometres per hour (km/hr):

a) 30m/s

b) 210m/s

c) 88m/s



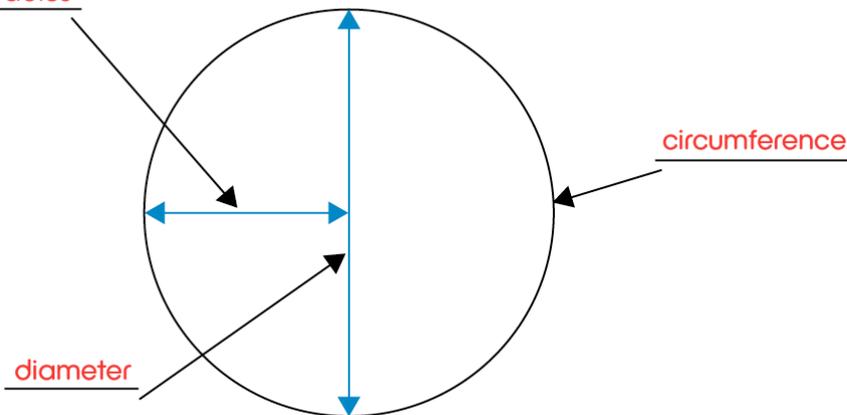
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ANSWERS

Basic

- 1) a) 2h 10m b) 4h 15m c) 45m
- 2) a) 2h 18m b) 3h 36m c) 7.5m
- 3) 240 miles
- 4) 40mph
- 5) 2 hours

6) radius



Core

- 1) 6.25m/s
- 2) 156km/hr
- 3) 3 hours 30 minutes
- 4) 0.0004km
- 5) a) 18.85m b) 28.27cm c) 37.70mm
- 6) a) 38.48m² b) 201.06cm² c) 615.75mm²

Advanced

- 1) a) 30.16cm b) 47.12m c) 113.10cm
- 2) a) 26.2cm b) 10.4m c) 14.9m
- 3) a) 19.44m/s b) 94.44m/s c) 72.22m/s
- 4) a) 108km/hr b) 756km/hr c) 316.8km/hr