2.1 Big Number Arithmetic

Homework Exercise

Question 1 - Do NOT use a calculator Calculate,

(i) 2000×300

(ii) 400×6000

(iii) 1300×300

(iv) 250×800

 (\mathbf{v}) 4000000 × 3

(vi) 5000^2

(**vii**) 6000×4000

(viii) 750×200

(ix) 450×3000

(x) 5500 × 110

Question 2 - Do NOT use a calculator

A Go-Kart moves at a constant speed of 20m/s for 30 minutes.

- (i) How many seconds are in 30 minutes?
- (ii) How many metres does the Go-Kart travel?
- (iii) Write your part (ii) answer in km.

Question 3 - Do NOT use a calculator

A Mini moves at a constant speed of 25m/s for 50 minutes along the M54 motorway.

- (i) How many seconds are in 50 minutes?
- (ii) How many metres does the Mini travel?
- (iii) Write your part (ii) answer in km.

Question 4 - Do NOT use a calculator

Calculate,

$$(i) \frac{160}{40}$$

(ii)
$$\frac{24000}{600}$$

(iii)
$$\frac{7200}{3600}$$

$$(iv) \frac{44000}{110}$$

$$(\mathbf{v}) \frac{250000}{50}$$

$$(\mathbf{vi}) \frac{150000}{250}$$

(vii)
$$\frac{8000}{16000}$$

(viii)
$$\frac{12500}{200}$$

$$(ix) \frac{9000000}{300}$$

$$(\mathbf{x}) \frac{3600000}{600}$$

Question 5 - Do NOT use a calculator A man drives 24 km at a steady speed for 20 minutes. (i) How many metres is 24 km? (ii) How many seconds are in 20 minutes? (iii) Find the man's speed in m/s. Question 6 - Do NOT use a calculator A missile covers 270 km at a steady speed in 15 minutes. (i) How many metres is 270 km? (ii) How many seconds are in 15 minutes? (iii) Find the missile's speed in m/s.

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Is the missile travelling faster than the speed of sound?

The speed of sound in air is 340m/s.

(iv)