

# Arithmetic

## Term 1 Week 1

Date:

No.

1a  $1 : 40000$

1cm : 40 000 cm

1cm : 400 m

1cm : 0.4 km

$\therefore 2.5 \text{ cm} : (0.4 \times 2.5) \text{ km}$

2.5 cm : 1 km

The actual length of road  
is 1 km.

1b 1cm : 400 m

1cm<sup>2</sup> : 160000 m<sup>2</sup>

The actual area is 160000 m<sup>2</sup>

2a  $2.24 \div 0.07$

$$= \frac{2.24}{0.07}$$

=  $\frac{224}{7}$  (by long division)

= 32 #

3c Total distance travelled

$$= 3 + 0.5$$

$$= 3.5 \text{ km}$$

Total time taken = 30 + 2

$$= 32 \text{ mins}$$

Ave speed for whole journey

$$= \frac{3.5}{32/60}$$

$$= 3.5 \times \frac{60}{32}$$

$$= \frac{210}{32}$$

$$= 6\frac{9}{16} \text{ km/h}$$

4ai  $\frac{75}{100} \times 12000 = 9000$

\$9000 was divided among them.

$$\frac{\$9000}{15} \times 4 = 2400$$

Peter got \$2400.

2b  $\frac{1}{21} \div (-3\frac{1}{3}) \times [\frac{1}{3} - \frac{1}{5} \times (-2\frac{1}{2})]$

$$= \frac{1}{21} \div (-\frac{10}{3}) \times [\frac{1}{3} - \frac{1}{5} \times (-\frac{5}{2})]$$

$$= \frac{1}{21} \times (-\frac{3}{10}) \times [\frac{1}{3} + \frac{1}{2}]$$

$$= -\frac{3}{210} \times \frac{8}{6}$$

$$= -\frac{1}{84} #$$

4aii  $12000 - 9000 = 3000$

\$3000 was placed on reserve.

$$\frac{6000}{8} \times 3 = 2250$$

Richard got \$2250

3a Time taken to walk

$$= (\frac{3}{6}) \text{ hr}$$

$$= \frac{1}{2} \text{ hr}$$

$$= 30 \text{ mins.}$$

4bij  $\frac{6000}{8} \times 4 = 3000$

Peter got \$3000

3b Running speed =  $\frac{0.5}{3600}$

$$= 0.5 \times \frac{60}{3600}$$

$$= 15 \text{ km/h}$$

5  $0.35 \times 48 = 84$

$$530.40 - 84 = 446.4$$

$$(446.4 \div 48) \div 31 = 0.30$$

The charge is 5 cents  
cheaper.