

Sec 4 Maths D

Date

3/6/02.

No.

1

Topic 1: Numbers, fractions, decimals and percentages

1a $3.64 \times 0.3 \times 0.05$

$= 3.64 \times 15 \times 10^{-3}$

$= 54.6 \times 10^{-3}$

$= 0.0546$

57.4 : 0.007

$= 57400 : 7$

$= 8200$

L

$\frac{5}{12} \div \frac{10}{21}$

$= \frac{5}{12} \times \frac{21}{10}$

$= \frac{7}{8}$

J $2\frac{1}{3} \div 1\frac{1}{6} \div (0.25)^3$

$= 3\frac{1}{2} \div 0.5$

$= 3$

5

Difference = $28 \div 0.9$

$= 3.7 \text{ m}$

b $1.04 - 0.2004$

$= 0.8396$

c 456×340

$= 45.6 \times 34$

$= 1550.4$

2. $453 \times 84 = 38052$

9 $453 \times 840 = 380520$

6a

Actual ht = $380 + 80$

$= 460 \text{ m}$

b New ht = $460 - 140$

$= 320 \text{ m}$

d $2\frac{1}{2} - 1\frac{2}{7}$

$= 2\frac{7}{14} - 1\frac{4}{14}$

$= 1\frac{3}{14}$

b $380.52 \div 0.84$

$= \frac{380.52}{0.84}$

$= \frac{38052}{84}$

$= 453$

7a Prime Nos. 5, 17

b Square Nos. 9, 121

c Literal Nos. $\sqrt{2}$, π

e $1.8 \div \frac{1}{0.3}$

$= 1.8 \times \frac{3}{10}$

$= 0.54$

3 $372 \times 52 = 19344$

a. 372×520

$= 372 \times 52 \times 10^{-1}$

8a

$63 = 3 \times 3 \times 7$

f $(\frac{1}{2} + \frac{3}{8}) \div (3 - \frac{1}{4})$

$= \frac{7}{8} \div 1\frac{3}{4}$

$= \frac{7}{8} \times \frac{4}{7}$

$= \frac{1}{2}$

b $19344 \div 0.52$

$= \frac{19344}{0.52}$

$= \frac{19344}{52}$

$= 372$

b

$\frac{63.2}{35} = \frac{7 \times 9n}{7 \times 5}$

$= \frac{9n}{5}$

Since $\frac{9n}{5} \in \mathbb{Z}$, smallest int. value of n is:

g $3\frac{1}{2} - 1\frac{1}{2} \times 1\frac{1}{4}$

$= 3\frac{1}{2} - \frac{3}{2} \times \frac{1}{4}$

$= 3\frac{1}{2} - \frac{3}{8}$

$= \frac{28}{8} - \frac{3}{8}$

$= \frac{7}{8}$

4a $2\frac{1}{3} - 1\frac{4}{5}$

$= 2\frac{5}{15} - 1\frac{12}{15}$

$= \frac{8}{15}$

h $1.04 - 0.088$

$= 0.952$

b $\frac{3}{5} \div 3\frac{3}{4}$

$= \frac{3}{5} \times \frac{15}{4}$

$= 2\frac{1}{4}$