CfE Book 1b

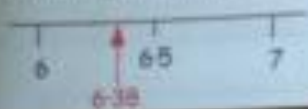## Rounding to the nearest Whole Number

Be able to round to the nearest whole number

6·38
lies between 6 and 7.
It is closer to 6
(the nearest whole number).

6   6·5   7
6·38

40·71
lies between 40 and 41.
It is closer to 41
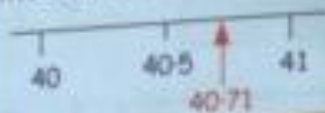(the nearest whole number).

40   40·5   41
40·71

When rounding to the nearest whole number :-

=> look at the first digit which comes just after the decimal point :-

if it is a 5, 6, 7, 8 or 9 => round up to the next whole number.

if it is a 0, 1, 2, 3 or 4 => leave the whole number before the point as it is.

Examples :- 5·4 = 5 to the nearest whole number.

2·8 = 3 to the nearest whole number.

6·5 = 7 to the nearest whole number.

8·399999 = 8 to the nearest whole number.

Exercise 3

1. When each decimal is rounded to the nearest whole number, which of the two numbers in the brackets is the correct answer :-

a   6·2   (6 or 7) ?   b   4·7   (4 or 5) ?

c   5·9   (5 or 6) ?   d   3·4   (3 or 4) ?

e   13·16   (13 or 14) ?   f   17·86   (17 or 18) ?

g   4·5   (4 or 5) ?   h   6·05   (6 or 7) ?

i   80·65   (80 or 81) ?   j   200·28   (200 or 201) ?

2. Copy and complete these statements :-

a   1·8 lies between 1 and 2 .   It is closer to ...

b   3·4 lies between 3 and ...   It is closer to ...

c   8·5 lies between ... and ...   It is closer to ...   (remember the rule)

d   2·59 lies between ... and ...   It is closer to ...

e   6·23 lies between ... and ...   It is closer to ...

f   0·74 lies between ... and ...   It is closer to ...

g   15·8 lies between ... and ...   It is closer to ...

h   33·54 lies between ... and ...   It is closer to ...

i   53·82 lies between ... and ...   It is closer to ...

CfE Book 2a - Chapter 5

3. Round these to the nearest whole £ :-

a	£6·20	b	£8·90	c	£4·30	d	£5·60
e	£14·80	f	£16·50	g	£19·49	h	£17·71
i	£0·43	j	£0·53	k	£0·50	l	£106·48.

4. Round these measurements to the nearest whole centimetre :-

a	8·4 cm	b	9·6 cm	c	10·8 cm	d	3·1 cm
e	4·47 cm	f	7·85 cm	g	18·29 cm	h	24·63 cm
i	26·27 cm	j	38·99 cm	k	43·14 cm	l	69·50 cm.

To round numbers like 2·86497 to the nearest whole number :-

> **Step 1** - check what two numbers it lies between - (2 and 3)
>
> **Step 2** - decide which whole number it is closer to → 2·86497 → 3

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5. Round these numbers to the nearest whole number, in the same way :-

a	1·46744 →	b	4·97254 →	c	8·26829 →
d	6·348623 →	e	5·44574 →	f	7·059332 →
g	14·755554 →	h	17·079784 →	i	29·64765 →
j	0·921161 →	k	36·247671 →	l	42·09999 →

6. Use your calculator to do the following divisions.
Write down the answers, correct to the nearest whole number :-

a	40 ÷ 7	b	45 ÷ 8	c	53 ÷ 16
d	106 ÷ 17	e	214 ÷ 29	f	500 ÷ 39
g	930 ÷ 340	h	1202 ÷ 75	i	2800 ÷ 103
j	25 ÷ 13	k	0·4 ÷ 0·7	l	97·3 ÷ 100.

m Three office workers won £2789 at the bingo. How much did they each get ?

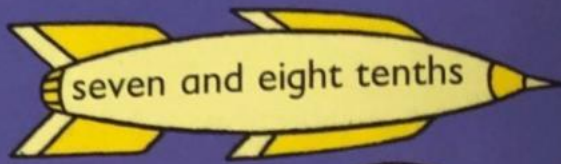n A plastic tubing 92 cm long is broken into 5 equal pieces. How long is each piece ?

o 2000 plants are shared equally between 12 neighbours. How many does each get ?

Here is how you can find **remainders** using your calculator.

> 147 ÷ 8 → • Use your calculator to show 147 ÷ 8 = 18·375.
>
> • Now find 8 × 18 = 144.
>
> • Now find 147 - 144 → remainder = 3.

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7. Find the remainder in each of the following (using the method shown above) :-

a	217 ÷ 8	b	309 ÷ 9	c	192 ÷ 5	d	4000 ÷ 13.

69

2·7

seven and eight tenths

forty-three tenths

$7\frac{2}{10}$

17·2

seven tenths

$3\frac{4}{10}$

1 Which space ship has the same number as

(a) 7·8

(b) $2\frac{7}{10}$

(c) thirty-four tenths

(d) 0·7

(e) $17\frac{2}{10}$

(f) four and three tenths?

2 Copy and complete each sequence.

(a) 0·2, 0·4, 0·6, ___, ___, ___

(b) 2·6, 2·2, 1·8, ___, ___, ___

(c) 6·7, 6·4, 6·1, ___, ___, ___

(d) 2·4, 3·0, ___, 4·2, ___, ___

(e) 10·5, 10·1 ___, ___, ___, 8·5

(f) 1·4, ___, ___, 2·9, ___, 3·9

3 Write the number between:

(a) 8·4 ■ 8·6

(b) 43·1 ■ 42·9

(c) 4·7 ■ 4·5

(d) 6·3 ■ 6·5

4 Write **a** number between:

(a) 3·6 ■ 4·0

(b) 143 ■ 143·5

(c) 9·6 ■ 6·9

(d) 15·4 ■ 13·0

(e) 71·4 ■ 80

(f) 1 ■ 2·5
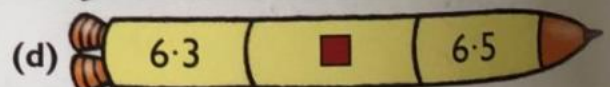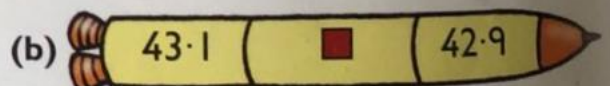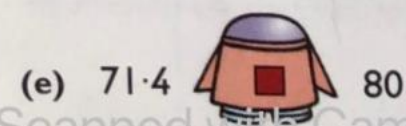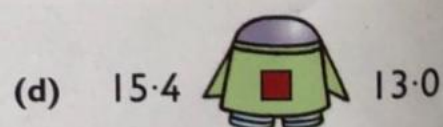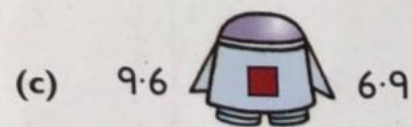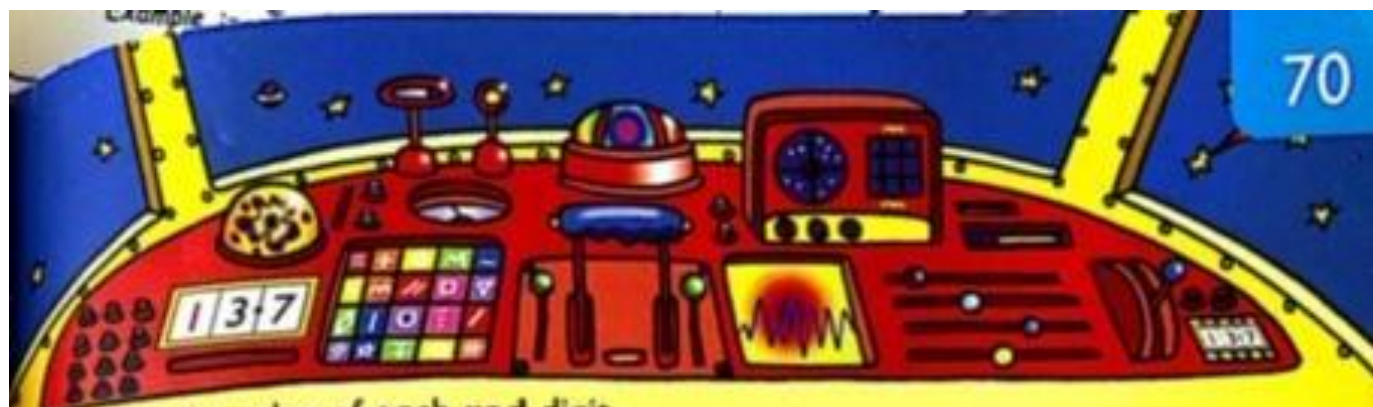
1 Write the value of each **red** digit.

(a) 1 3·7 (b) 4 6·5 (c) 6 2·2

(d) 3 3·3 (e) 5 8·6 (f) 2 9·4

2 Write True (T) or False (F).

(a) 9·0 > 0·9 (b) 34·0 > 340 (c) 60·3 < 63·0

(d) $\frac{81}{10} > \frac{18}{10}$ (e) $4\frac{7}{10} < 7\frac{4}{10}$ (f) 9·3 < 3·9

3 Write the smallest number.

(a) 2·3 3·2 23 (b) $64\frac{1}{10}$ 64 64·6

(c) 4·1 $1\frac{1}{10}$ 1·4 (d) 155 55·1 15·5

4 List the numbers in order.
- Start with the **smallest**.

(a) 3·8 3·0 4·3 3·4 (b) 19·0 1·9 10·9 9·1

- Start with the **largest**.

(c) 2·5 $3\frac{5}{10}$ $2\frac{7}{10}$ 3·7 (d) 4·0 $\frac{4}{10}$ 14·0 $\frac{14}{10}$

5

0·4 4·7 0·9 3·3 2·8 5·6 1·9

Which space pod number is nearest to

(a) 5 (b) 3 (c) 2 (d) 6 (e) 1?

6 Round to the **nearest whole number.**

(a) 6·8 (b) 3·6 (c) 6·3 (d) 10·4 (e) 17·9

(f) 55·2 (g) 29·7 (h) 234·1 (i) 749·0 (j) 199·5

Adding in Hundreds

Adding whole numbers up to 3 digits with no "carrying".

Example   Do this sum :- 216 + 473

Set down as shown.

* Remember to line up the numbers

216 + 473 = 689

```
  H  T  U
     2  1  6
  +  4  7  3
  ─────────
     6  8  9  ✓
```

6 + 3 = 9
1 + 7 = 8
2 + 4 = 6

Exercise 3

Worksheet 5·3

1. Copy and complete :-

a   104
   + 123

b   429
   + 260

c   315
   + 134

d   426
   + 172

e   506
   + 391

f   572
   + 225

g   609
   + 140

h   681
   + 217

i   801
   + 177

j   856
   + 123

k   900
   + 87

l   637
   + 52

2. Line up each addition sum, then work out the answers :-

a   215 + 372   b   148 + 531   c   396 + 102   d   424 + 265

e   300 + 200   f   356 + 423   g   482 + 311   h   501 + 198

i   572 + 116   j   677 + 210   k   603 + 345   l   714 + 273

m   814 + 72   n   888 + 110   o   900 + 3   p   946 + 12.

CVS Book in - Chapter 5   that is page 51   Whole Numbers 3