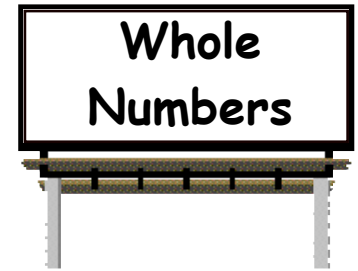
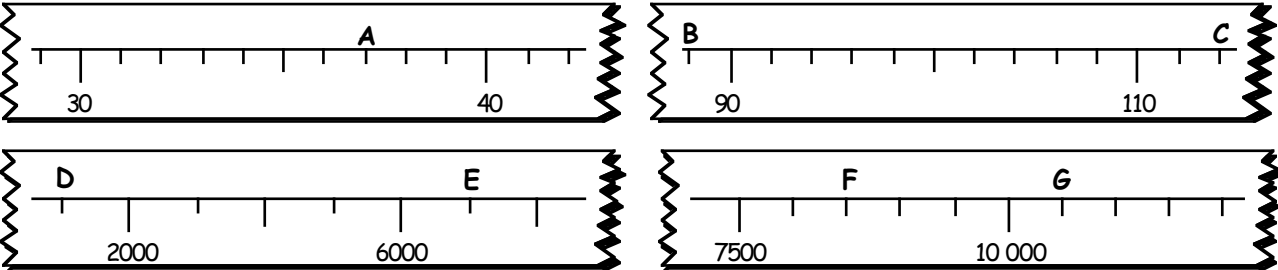


Chapter 1

Calculators should NOT be used in this homework chapter except in the final exercise.



Exercise 1

- Write the following numbers out fully in words :-
 (a) 2007 (b) 18 050 (c) 140 010 (d) 101 007.
- Write the following numbers using digits :-
 (a) five hundred and forty. (b) ten thousand and ninety.
 (c) fifty thousand and two. (d) one hundred thousand and ten.
 (e) seven hundred and seven thousand and seventy.
 (f) one million, one hundred and one thousand.
- Put the following numbers in order, smallest first :-
 399, 3011, 401, 35 002, 30 401, 4001, 40 900, 7001.
- Write down the number that is :-
 (a) 50 after 960 (b) 500 after 7580 (c) 3500 before 9050
 (d) three thousand six hundred before five thousand.
 (e) half-way between :- (i) 190 and 230 (ii) 1500 and 1850.
- Look at the following scales. What numbers are represented by the letters A, B, C, ...


The scales are as follows:

 - Scale 1: Range 30 to 40. Major ticks every 10 units, minor ticks every 2 units. Label A is at the 6th minor tick after 30.
 - Scale 2: Range 90 to 110. Major ticks every 20 units, minor ticks every 2 units. Label B is at the 1st minor tick after 90. Label C is at the 10th minor tick after 110.
 - Scale 3: Range 2000 to 6000. Major ticks every 1000 units, minor ticks every 200 units. Label D is at the 1st minor tick after 2000. Label E is at the 20th minor tick after 6000.
 - Scale 4: Range 7500 to 10 000. Major ticks every 1000 units, minor ticks every 200 units. Label F is at the 5th minor tick after 7500. Label G is at the 25th minor tick after 10 000.
- What is the average (mean) of :-
 (a) 120 and 160 ? (b) 180 and 224 ?
 (c) 3000 and 4500 ? (d) 7500 and 8150 ?
- The millionaire's charity ball was a great success. Mr. Rich donated one and a half million pounds to charity. Write this amount in full.



Exercise 2

Try to do as much of this exercise as you can **mentally**.



1. Write down the answers to :-

- (a) $27 + 34$ (b) $76 + 37$ (c) $136 + 85$ (d) $147 + 135$
 (e) $351 + 279$ (f) $2100 + 3700$ (g) $4600 + 2700$ (h) $6450 + 3350$.

2. Write down the answers to :-

- (a) $58 - 37$ (b) $96 - 39$ (c) $170 - 49$ (d) $185 - 118$
 (e) $270 - 195$ (f) $865 - 495$ (g) $3100 - 1200$ (h) $9750 - 7450$.

3. Find :-

- (a) $530 + 880$ (b) $4320 - 620$ (c) $5650 + 3700$ (d) $9980 - 5320$
 (e) $5555 + 4445$ (f) $9090 - 2100$ (g) $2080 + 3040$ (h) $9870 - 8990$.

4. (a) An army plane takes off with 72 soldiers.
 Forty seven soldiers parachute from the plane.
 How many soldiers are left on the plane ?



- (b) The dentist charged Mr. Molar £245 for a crown and £76 for a filling.
 How much was Mr. Molar's total bill ?



- (c) Janice earned £1850 per month and Joe earned £790.
 (i) How much did they earn altogether ?
 (ii) How much more did Janice earn than Joe ?

5. Miss Savey had £265 in her wallet.
 She spent £99 on a new jacket and £79 on a pair of shoes.
 She then took £120 from a cashline machine.
 How much money does Miss Savey have in her possession now ?



Exercise 3

Show all your working for this exercise.



1. Copy the following and find the answers :-

- | | | | |
|---|---|---|---|
| (a) $\begin{array}{r} 468 \\ + 222 \\ \hline \end{array}$ | (b) $\begin{array}{r} 678 \\ + 396 \\ \hline \end{array}$ | (c) $\begin{array}{r} 499 \\ - 368 \\ \hline \end{array}$ | (d) $\begin{array}{r} 777 \\ + 333 \\ \hline \end{array}$ |
| (e) $\begin{array}{r} 904 \\ - 717 \\ \hline \end{array}$ | (f) $\begin{array}{r} 8008 \\ + 1764 \\ \hline \end{array}$ | (g) $\begin{array}{r} 2345 \\ + 7656 \\ \hline \end{array}$ | (h) $\begin{array}{r} 5004 \\ - 4295 \\ \hline \end{array}$ |

- (i) $4870 + 888$ (j) $5432 + 3577$ (k) $7941 - 5974$ (l) $9009 - 178$

2. (a) Last season, the Tigers scored 4375 points and the Panthers scored 2680 points.

- (i) How many points were scored altogether ?
 (ii) How many more points were scored by the Tigers than the Panthers ?



(b)



A secretary earned £7660 last year.
 This year she received a pay increase of £1360.
 What is her salary this year ?

- (c) Jay has £2450. He gives Paul £360, Beth £660 and Andy £150.
 Peter gives Jay £75.

How much money does Jay have now ?



Exercise 4

1. Write down the answers to the following :-

- (a) 45×10 (b) 22×10 (c) 10×76 (d) 10×20
 (e) 123×10 (f) 802×10 (g) 10×1200 (h) 10×1030

2. Write down the answers to the following :-

- (a) 41×100 (b) 99×100 (c) 100×231 (d) 100×100
 (e) 501×100 (f) 100×300 (g) 100×2020 (h) 5000×100

3. Write down the answers to these :-

- (a) 230×10 (b) 330×100 (c) 404×10 (d) 100×660
 (e) 10×900 (f) 1000×100 (g) 1010×10 (h) 2000×100

4. A bottle holds 100 millilitres of medicine.

How many millilitres are there in :-

- (a) 4 bottles (b) 30 bottles ?

5. There are 10 millimetres in 1 centimetre.

How many millimetres are there in :-

- (a) 5 cm (b) 40 cm (c) 101 cm (d) 1000 cm ?



Exercise 5



1. Write down the answers to the following :-

- (a) $330 \div 10$ (b) $560 \div 10$ (c) $700 \div 10$ (d) $3000 \div 10$
 (e) $8000 \div 10$ (f) $5500 \div 10$ (g) $10\,000 \div 10$ (h) $140\,500 \div 10$

2. Write down the answers to the following :-

- (a) $200 \div 100$ (b) $1600 \div 100$ (c) $8000 \div 100$ (d) $24\,000 \div 100$
 (e) $10\,000 \div 100$ (f) $20\,100 \div 100$ (g) $300\,000 \div 100$ (h) $5\,000\,000 \div 100$

3. Write down the answers to these :-

- (a) $9000 \div 100$ (b) $2050 \div 10$ (c) $22\,000 \div 100$ (d) $1100 \div 10$
 (e) $8700 \div 100$ (f) $10\,000 \div 10$ (g) $1000 \div 100$ (h) $100 \div 100$

4. There are 10 millimetres in 1 centimetre and 100 centimetres in 1 metre.

How many metres are equivalent to :-

- (a) 500 cm (b) 80 000 cm (c) 50 000 mm (d) 100 000 mm ?

5. A bottle can hold 100 headache pills.

How many similar bottles are needed to hold :-

- (a) 700 pills (b) 40 000 pills ?



Exercise 6



1. Copy the following and complete the calculations :-

- | | | | |
|---|---|---|---|
| (a) $\begin{array}{r} 27 \\ \times 3 \\ \hline \hline \end{array}$ | (b) $\begin{array}{r} 34 \\ \times 4 \\ \hline \hline \end{array}$ | (c) $\begin{array}{r} 71 \\ \times 6 \\ \hline \hline \end{array}$ | (d) $\begin{array}{r} 55 \\ \times 5 \\ \hline \hline \end{array}$ |
| (e) $\begin{array}{r} 132 \\ \times 7 \\ \hline \hline \end{array}$ | (f) $\begin{array}{r} 308 \\ \times 6 \\ \hline \hline \end{array}$ | (g) $\begin{array}{r} 367 \\ \times 4 \\ \hline \hline \end{array}$ | (h) $\begin{array}{r} 238 \\ \times 9 \\ \hline \hline \end{array}$ |

2. Rewrite each of these in the above form and complete the calculations :-

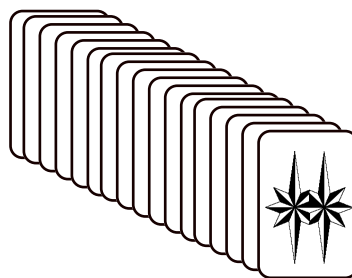
- (a) 35×6 (b) 93×5 (c) 8×43 (d) 78×7
 (e) 9×406 (f) 8×333 (g) 9231×9 (h) 4×4444

3. Show all working :- (a) How many minutes are there in eight hours ?

(b) How many hours are in a week ?

(c) Find :- (i) $3 \times 72 \times 4$ (ii) $5 \times 621 \times 7$

4. (a) Buzz has 9 packs of trading cards.
Each pack contains 136 cards.
How many cards does Buzz have ?
- (b) Sadie can write 368 words (in shorthand)
in 4 minutes. At the same rate, how many
words can she write in one minute ?



Exercise 7



1. Copy the following and complete each calculation :-

(a) $7 \overline{)63}$

(b) $5 \overline{)735}$

(c) $8 \overline{)440}$

(d) $9 \overline{)5571}$

2. Set the following down in the same way as above and complete each calculation :-

(a) $64 \div 4$

(b) $378 \div 2$

(c) $824 \div 4$

(d) $364 \div 7$

(e) $2664 \div 6$

(f) $2875 \div 5$

(g)
$$\begin{array}{r} 8204 \\ 4 \end{array}$$

(h)
$$\begin{array}{r} 7578 \\ 9 \end{array}$$

3. Show all your working in solving the following :-

- (a) A box can hold 8 teddy bears.

How many boxes are needed for 248 teddies ?

- (b) A spoonful of medicine holds 5 millilitres.

How many spoonfuls would you need for 275 millilitres ?

- (c) Find the answer to :- (i) $3836 \div 4 \div 7$

(ii) $7 \times 235 \div 5$.



4. Find the remainder each time here :-

(a) $656 \div 8$

(b) $2208 \div 6$

(c) $9 \overline{)3141}$

(d)
$$\begin{array}{r} 8815 \\ 5 \end{array}$$

5. A mini-bus can take 9 pupils at a time to the swimming pool.
There are 120 pupils to go to the pool.

- (a) How many journeys will the bus need to make ?
(To the pool and back is counted as 1 journey).

- (b) How many pupils will be on the bus on the last journey ?



Exercise 8



- Try to do the following mentally :- (use the 2-step approach)

(a) 32×20	(b) 52×30	(c) 30×40	(d) 123×30
(e) 40×25	(f) 50×304	(g) 70×80	(h) 90×321
- Calculate each of the following (not necessarily mentally) :-

(a) 234×30 [Find 10×234 first = 2340 and then find 2340×3]	(b) 137×50	(c) 705×60	(d) 453×40	(e) 876×20
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- Calculate each of the following :-

(a) 167×200 [Find 167×100 first = 16 700 and then find $16 700 \times 2$]	(b) 152×400	(c) 405×500	(d) 517×600	(e) 420×500
(f) 879×300	(g) 987×200	(h) 222×800	(i) 510×700	

Exercise 9



- Round to the nearest 10 :-

(a) 58	(b) 43	(c) 85	(d) 128
(e) 362	(f) 489	(g) 3765	(h) 1996
- Round to the nearest 100 :-

(a) 471	(b) 849	(c) 1396	(d) 3445
(e) 9819	(f) 6066	(g) 11 870	(h) 9951

- A room has a perimeter of 7465 centimetres.

Round this figure to the nearest :-

- | | |
|--------|---------|
| (a) 10 | (b) 100 |
|--------|---------|



-



Sanjit has £1996 in his bank.

Round this figure to the nearest :-

- | | |
|---------|-----------|
| (a) £10 | (b) £100. |
|---------|-----------|

- A spaceship orbits a planet and travels 99 909 kilometres.

Round this figure to the nearest :-

- | | |
|-----------|-------------|
| (a) 10 km | (b) 100 km. |
|-----------|-------------|



Exercise 10



1. Round each number to 1 figure accuracy, then give an estimate to :-
- (a) $39 + 23$ (b) $47 + 44$ (c) $197 + 38$ (d) $123 + 139$
 (e) $93 + 190$ (f) $88 + 194$ (g) $378 + 241$ (h) $794 + 251$

2. (a) Jack has 188 euros. Jill has 322 euros.
Approximately, how many euros do they have in total ?



- (b) Calculate, approximately, the **perimeter** of a square with each side 198 centimetres.



3. Give an approximate answer to each of the following :-
- (a) $97 - 49$ (b) $284 - 198$ (c) $512 - 296$ (d) $1111 - 790$

4. Round each number to 1 figure accuracy, then give an estimate to :-
- (a) $29 + 31 + 38$ (b) $199 + 304 + 299$ (c) $29 + 793 + 90$ (d) $819 + 143 + 189$
 (e) 12×8 (f) 54×8 (g) 34×98 (h) 222×95

Exercise 11

You may use a calculator for this exercise.



1. Calculate :-
- (a) $364 + 179$ (b) $4789 - 1908$ (c) $6734 + 243$ (d) $9578 - 833$
 (e) 37×24 (f) $8234 \div 23$ (g) $37 \times 46 \div 23$ (h) $158 \times 288 \div 79$

2. (a) A jet flies 187 kilometres of a one thousand kilometre flight.
How far has the jet still to travel ?



- (b)  Jack buys a car and pays £2760.
He still has £1890 to pay.
What is the cost of his car ?


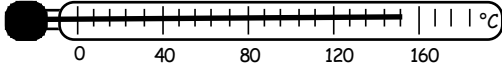



- (c) A rectangular park of length 250 metres has a perimeter of 800 metres.
What is the width of the park ?



- (d)  Sam has £300. She buys three jackets at £45 each and a dress costing £94.
How much money does she have left ?

Revision Exercise



- Write out the number 10759 fully in words.
- Write the following numbers using digits :-
(a) twenty thousand and ten (b) eighty one thousand and ninety.
- Rearrange the following numbers in order, starting with the largest :-
4070 4991 3765 3099 40003 4700
- What is the reading on these thermometers :-
(a)  (b) 
- What is the average (**mean**) of :- (a) 1500 and 1800 (b) 8700 and 9600
- Try doing the following mentally :-
(a) $78 + 86$ (b) $2500 - 1950$ (c) $3650 + 9350$ (d) $10000 - 2950$
(e) 42×10 (f) $5400 \div 10$ (g) 100×330 (h) $36000 \div 100$
(i) A train has 76 passengers. At the station fifty nine passengers get off and sixteen passengers get on the train.
How many passengers are now on the train?

- Show all working :-
(a) $3474 + 188$ (b) $8765 - 5678$ (c) $3456 + 2199$ (d) $10000 - 5678$
(e) 44×5 (f) 622×8 (g) $324 \div 4$ (h) $19188 \div 9$
- Show all working :-
(a) Jo buys a television for £469 and a DVD player for £176.
What is Jo's total bill?
(b) Penny has £8078 in her bank.
She takes out £1290 for a car deposit.
How much is now in Penny's bank account?
 
- Round 4996 to the nearest:- (a) 10 (b) 100
- Find mentally an **approximate** answer to :- (a) $496 + 708$ (b) 199×11
- Find mentally :- (a) 40×20 (b) 600×30 (c) $4000 \div 20$