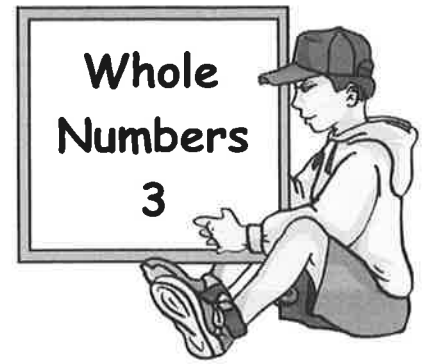


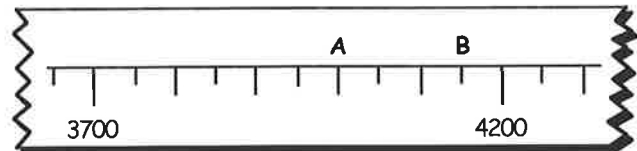
CHAPTER 1

Consolidation



- Write out the number 418 706 fully in words.
- Write the number "sixty four thousand and seventy one" using digits.
- Rearrange the numbers given below in order, starting with the largest :-
49 138 49 318 50 112 48 992 50 120 48 979.

- What numbers are represented by A and B on the given scale ?



- What number lies halfway between 49 000 and 57 000 ?
- Set down the following and calculate :-

a
$$\begin{array}{r} 4719 \\ + 1582 \\ \hline \end{array}$$

b
$$\begin{array}{r} 8436 \\ - 3762 \\ \hline \end{array}$$

c $7908 + 682$

d $5000 - 3693$.

- Round to the nearest 10 :- a 76 b 792 c 4887.
- Round to the nearest 100 :- a 1472 b 8551 c 72 350.
- Round to 1 figure accuracy and find an approximate answer to $48\ 100 - 29\ 070$.
- Copy the following and complete the calculations :-

a
$$\begin{array}{r} 9432 \\ \times 7 \\ \hline \\ \hline \end{array}$$

b $4 \overline{)19016}$

c 2647×9

d $5176 \div 8$.

- What is :- a 3162×10 b 603×100 c $39100 \div 100$ d $58\ 000 \div 1000$?
- A coach driver drives 286 miles each day, Saturday to Friday.
How many miles does he cover in that time ?



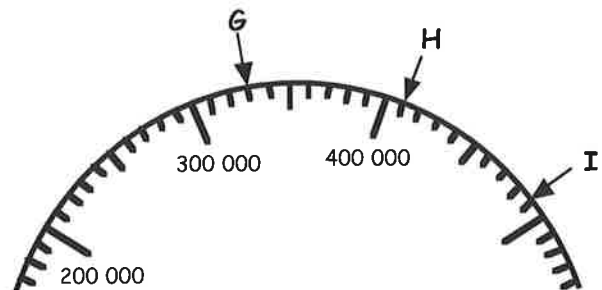
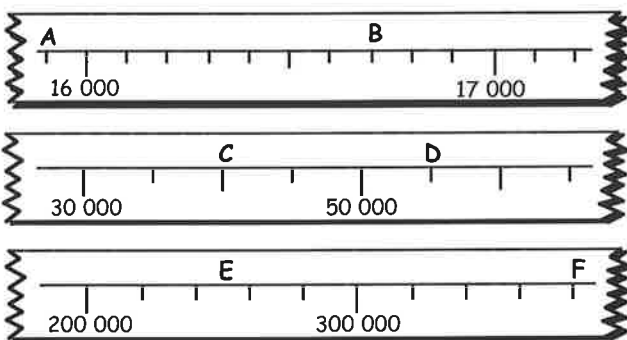
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Nine people shared a bingo win of £3123.
How much did they each receive ?

Exercise 1

1. What do the following **digits** stand for in the number 3 596 184 :-
 a 3 b 6 c 9 d 5?
2. What does the **5** stand for in each of these numbers :-
 a 47530 b 48251 c 935200 d 5680703?
3. Write the following numbers out fully in **words** :-
 a 34600 b 561090 c 1730000 d 8014050.
4. Write the following numbers **using digits** :-
 a six hundred and forty thousand and eight
 b three million, nine hundred and twelve thousand
 c fourteen million, thirty thousand and seventy two.
5. Put the following set of numbers in order, **largest first** :-
 100460, 99939, 100064, 98889, 89988, 100640.
6. Write down the number that is :-
 a 60 **after** 480 b 90 **before** 1930 c 3000 **after** 177003
 d 7500 **before** 800000 e 400200 **before** 2100600.
7. Look at the following scales. What numbers are represented by **A, B, C, ... ?**



8. What number lies **halfway** between :-
 a 4200 and 4800 b 52000 and 52900 c 900000 and 1300000
9. Write out these in **figures** :-
 a $\frac{1}{2}$ million b $1\frac{3}{4}$ million c $2\frac{1}{4}$ million.

Exercise 2

- Try to do the following **mentally** :- (use the 2-step approach)
 - 18×70
 - 40×123
 - 67×200
 - 312×800
 - 3000×56
 - 240×9000 .
- Calculate each of the following :-
 - 547×30 [Find 547×10 first = 5470 and then find 5470×3]
 - 4167×60
 - 5674×80
 - 9874×90
 - 3295×30
 - 70×6047
 - 36769×20 .
- Work out each of the following using the same 2 steps :-
 - 309×400 [Find 309×100 first = 30900 and then find 30900×4]
 - 463×300
 - 700×408
 - 900×748
 - 815×6000
 - 8000×237
 - 7000×6870 .
- Do the following **mentally** :-
 - 40×500
 - 200×800
 - 3000×9000
 - $24000 \div 400$
 - $5600000 \div 800$
 - $21700000 \div 7000$.
- There are 86 400 seconds in an hour. How many seconds are there in 50 hours ?




Exercise 3



- Round to the **nearest 10** :-
 - 79
 - 293
 - 7
 - 705
 - 3766
 - 8904
 - 4097
 - 14494.
- Round to the **nearest 100** :-
 - 798
 - 419
 - 7610
 - 8463
 - 23291
 - 26850
 - 88249
 - 47951.
- Round to the **nearest 1000** :-
 - 5700
 - 19160
 - 83912
 - 17502
 - 468499
 - 384511
 - 369708
 - 299981.
- It cost Real Madrid £79 452 000 to buy Ronaldo.
Round this amount to the nearest :-
 - £million
 - £10 million.



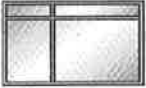
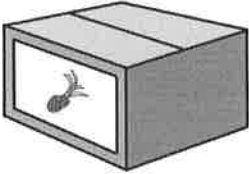
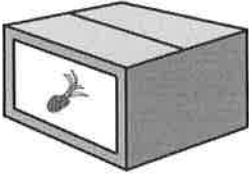



Exercise 4

1. Round each number to 1 figure accuracy, then give an estimate for :-
- a 81×38 b 47×62 c 98×51 d 496×62
 e 308×89 f 875×193 g $496 \div 53$ h $4038 \div 36$
 i $5874 \div 189$ j $643\,657 \div 313$ k $19\,076 \div 379$ l $98\,808 \div 4865$.
2. a This bottle of tomato sauce weighs 712 grams.
 What is the **approximate** weight of a carton containing 24 bottles ? 
- b  A computer company made £27 324 on selling 195 notebooks.
Approximately, what were each of them sold for ?
- c On average, a lorry driver travels 41 875 miles per year while at work.
 If a haulage company employs 209 drivers, what will the **approximate** total mileage travelled by these drivers be ? 

Exercise 5



1. The seating capacity of the Pavillion Theatre in Glasgow is 1449.
 If it was filled to capacity on 230 occasions last year,
 how many people attended the Theatre in total ? 
2. A shop bought in five thousand nine hundred and fifty Easter eggs.
 If an equal amount were sold over a fortnightly period,
 how many eggs on average were sold each day ? 
3.  A box holds 280 locks. A double glazing company ordered 30 boxes.
 8195 locks were used when windows were renewed in a housing estate.
 How many locks did the company have left ? 
4. A greengrocer bought 50 boxes of pineapples for £675.
 He sold them for £19.30 per box.
- a How much money did he collect when he sold all the boxes of pineapples ?
 b How much more was this than he had paid for them ? 
5.  Jennifer receives a monthly wage of £2445.80.
 Marjorie gets paid weekly at the rate of £565 per week.
 Who has the larger annual salary and by how much ?

Exercise 6



1. Use **BOMDAS** to help you calculate :-

a $12 + 9 \times 2$

b $40 - 28 \div 4$

c $30 - 18 \div 2 - 13$

d fifth of $70 - 10$

e $10 + \frac{1}{2}$ of 50

f $15 - \frac{1}{4}$ of $20 + 4$

g $8 \times 2 - 21 \div 3 + 6$

h $7 \times 6 - 2 \times 9 + 20 \div 4$

i $9 - \frac{1}{5}$ of $(50 - 20)$.

2. Find, showing two more steps each time :-

a $7 + (18 \div 2)$

b $54 \div (12 - 3)$

c $5 \times (14 + 6)$

d $200 \div (16 + 4)$

e $6 \times (7 + 3) - 50$

f $(6 + 3) \times (7 - 2) + 5$.

g $25 - \frac{1}{8}$ of 40×5

h $\frac{1}{3}$ of $(\frac{1}{6}$ of 18)

i $((6 + 4) \div 2) \times 3 - 10$.

3. Copy each of the following and **insert brackets** to make each calculation correct :-

a $8 + 3 \times 4 = 44$

b $23 - 6 \times 3 = 5$

c $20 + 8 \div 7 = 4$

d $2 + 8 \div 2 \times 8 = 34$

e $12 + 20 \div 10 - 7 = 7$

f $6 + 4 \times 8 - 5 \div 2 = 15$.

Revision Exercise



1. a Round to the nearest 10 :- (i) 59 (ii) 4783 (iii) 16 845
b Round to the nearest 100 :- (i) 238 (ii) 1570 (iii) 19173
c Round to the nearest 1000 :- (i) 2647 (ii) 31498 (iii) 456 502.

2. a Round both numbers to the nearest 10, then **estimate** :- $478 + 296$
b Round both numbers to the nearest 100, then **estimate** :- $6391 - 2524$
c Round both numbers to the nearest 1000, then **estimate** :- $14760 + 5438$.

3. Estimate :- a 5376×9 b $20875 \div 7$.

4. The population of Wales in July of 2011 was 3 028 899.

Round this number to the nearest ten thousand.



5. Set down these calculations and work them out :-

a $18\,479 + 416$

b $49\,103 - 34\,877$

c 1946×7

d 3958×4

e $584\,538 + 126\,496$

f $13\,875 \times 9$

g $137\,905 \div 5$

h $26\,328 \div 3$

i $2\,480\,023 \div 7$.

6. Write down the answer to :-

- a 540×10 b 762×1000 c 476×100 d 3000×1000
e $470 \div 10$ f $27500 \div 100$ g $3701000 \div 100$ h $6108000 \div 1000$.

7. Find :-

- a 126×30 b 78×200 c 537×500 d 115×8000
e $630 \div 70$ f $20300 \div 700$ g $8404200 \div 900$ h $2320000 \div 4000$.

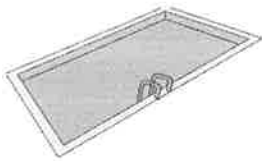
8. I flew from Edinburgh to Dubai, a distance of 5777 miles and then on to Shanghai, a further 6450 miles.

- a How far did I travel in total ?
b How much shorter was the first journey ?



9. When a number is multiplied by 8 the answer is 69 992.
What is that number ?

10.



The total amount of annual fees collected by the manager of a leisure centre consisting of 365 members was £153 300.
How much did each member have to pay annually ?

11. 48 people work an eight hour shift at a furniture store.
If the total wage bill for them is £2880,
what is their **hourly** rate of pay ?



12.



A buyer for a fashion store bought 80 jackets for £5200.
The store managed to sell all but 8 of them for £76 each.
a How much money did the store take in ?
b How much did the store make out of these sales ?

13. Mary bought a new sports car worth £43 750. She arranged to pay the dealer £7 000 and then pay what was still owed over a period of 24 months.

After that first payment :-

- a how much did she still owe the dealer ?
b what had she to pay per month to clear what she owed ?

