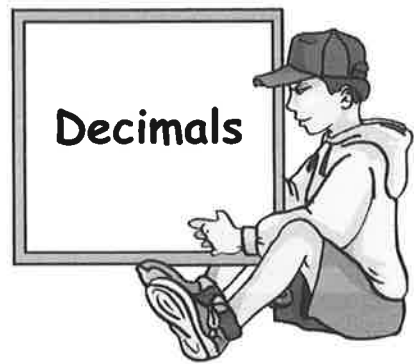
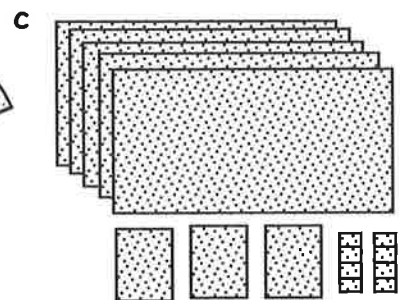
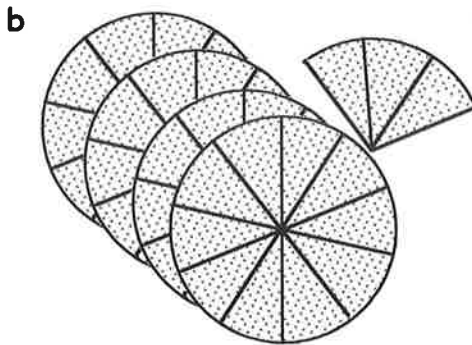
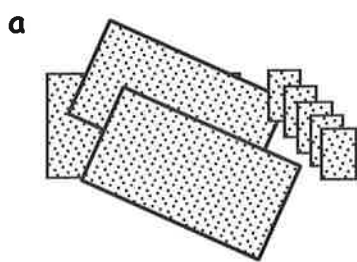


CHAPTER 4

Consolidation



1. What decimal numbers do these diagrams represent ?



2. What does the 3 represent in each of the following decimal numbers :-

- a 243.716 b 4.035 c 0.3246 d 301.877 e 6.093 ?

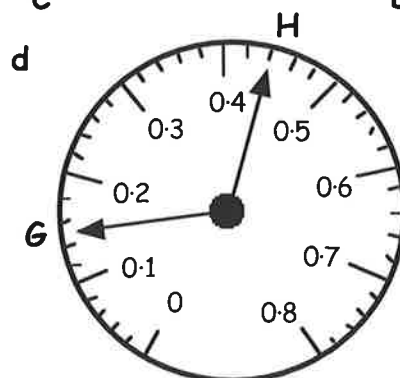
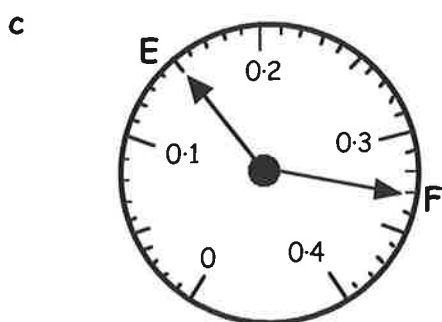
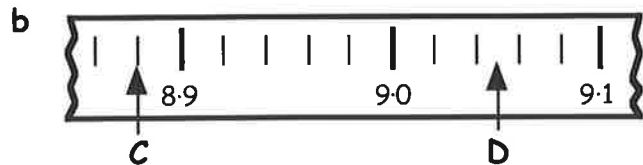
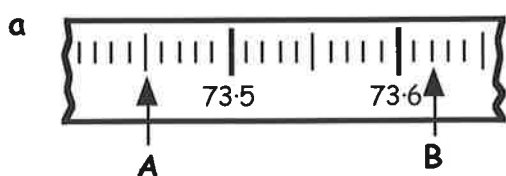
3. Arrange these decimal numbers in order, starting with the **largest** :-

0.865, 0.856, 0.809, 0.79, 0.866, 0.709, 1.004.

4. What number is :-

- a $\frac{7}{10}$ up from 2.5 b $\frac{3}{100}$ down from 1.41 c $\frac{9}{1000}$ up from 6.921 ?

5. What decimal number is the arrow pointing to in each case :-



6. Round these to the **nearest whole** £ :-

- a £8.23 b £1.75 c £18.67 d £19.48.

7. Round these measurements to the nearest **whole centimetre** :-

- a 6.4 cm b 9.7 cm c 8.47 cm d 23.15 cm.

8. Round these numbers to the **nearest whole number** :-

- a 3.4 b 7.9 c 9.18 d 45.549.

9. Round these numbers to **1 decimal place** :-

- a 2.34 b 4.917 c 12.49123 d 28.95112.

10. Round each number to **1 decimal place** and then find an **estimate** to :-

- a $6.195 + 4.613$ b $19.522 + 21.788$ c $10.631 - 3.426$ d $1.271 - 0.945$

11. Round these numbers to **2 decimal places** :-

- a 3.467 b 7.952 c 17.48808 d 56.53087.


12. Work out :-

- a $19.7 + 11.3$ b $6.84 + 7.6$ c $0.865 + 0.98$ d $19.3 + 2.578$
 e $609.87 + 92$ f $4.8 - 3.9$ g $19.5 - 14.2$ h $58.7 - 30.8$
 i $1.47 - 0.5$ j $67.3 - 45.91$ k $7 - 0.072$ l $2222 - 200.99$.

13. Show your working in answering these questions :-


- a A lawnmower full of grass weighs 17.5 kilograms.
 When the 0.75 kg of grass is emptied from it,
 what is the weight of the actual mower ?



- b  I cycle 12.8 miles from my house to the school.
 Each day on the way home, I call in at my gran's which adds a
 further 1.95 miles onto my homeward journey.
 How far do I cover to and from school each day ?

- c A box of melons weighs 4.7 kg. What's the weight of 9 boxes ?



- d  Paul is a repair man and is paid daily.
 What was his rate per hour when he received £98.88 for
 working from 7.45 am until 3.45 pm ?

14. Copy the following and complete the calculations :-

- a
$$\begin{array}{r} 28.9 \\ \times 7 \\ \hline \end{array}$$
 b
$$\begin{array}{r} 134.27 \\ \times 8 \\ \hline \end{array}$$
 c 249.7×6 d 806.5×9
 e $4 \overline{) 23.6}$ f $6 \overline{) 47.34}$ g $109.6 \div 8$ h $1502.2 \div 7$.

15. Write down the answers to the following :-

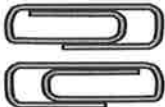
- a 9.3×10 b 10×0.205 c 100×5.2 d 3.03×100
e 100×0.0086 f 2.817×1000 g 1000×4.0404 h 62.01×1000 .

16. There are 1000 millilitres in 1 litre. How many millilitres are there in :-

- a 2.447 litres b 21.2 litres c 0.8 litres d 0.007 litres ?


17. Write down the answers to the following :-

- a $25.7 \div 10$ b $19 \div 10$ c $0.98 \div 10$ d $152.4 \div 100$
e $19 \div 100$ f $0.3 \div 100$ g $500 \div 1000$ h $26.09 \div 1000$.

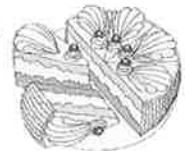
18. a  The total weight of 100 paper clips is 97 grams.
What is the weight of 1 paper clip ?


- b Sam paid £210.80 for 10 dwarf conifer trees.
What price were they each ?



- c  One thousand people each paid £25.50 for a football ticket.
How much did the club make from them in total ?

19. a Grego the Bakers charge £4.68 for their home made cherry sponges.
If they sold 8 of them within half an hour of putting them on display how much money did they collect in that short period ?



- b  A small dairy farmer collects roughly 29.25 gallons of milk each day from his 9 cows.
How many gallons of milk on average does each cow produce per day ?

20. Calculate, using BOMDAS.

- a $5 + 6 \times 3$ b $45 - 6 \times 7$ c $4 \times 5 - 12 \div 6$
d $14 + 36 \div 9 - 17$ e $64 - 56 \div 8$ f $80 - 40 \div 10$
g $23 - 15 + 6 - 12$ h a quarter of $28 \div 7$ i a sixth of $60 - 9$
j $\frac{1}{2}$ of $30 \div 6$ k $17 + \frac{1}{3}$ of 21 l $26 - \frac{1}{4}$ of $84 + 1$
m $27 \div (7 - 4)$ n $25 - 22 \div 11 - 23$ o $9 \times (7 + 1) \div 6$.

Exercise 1

1. Find :-
- | | | | | | | | |
|---|----------------------|---|----------------------|---|-------------------------|---|---------------------|
| a | 4.25×20 | b | 26.4×30 | c | 5.72×40 | | |
| d | 37.8×50 | e | 61.27×60 | f | 219.4×70 | g | 325.09×80 |
| h | 0.04×90 | i | 0.073×200 | j | 10.97×300 | k | 0.0018×400 |
| l | 437.6×500 | m | 26.54×600 | n | 7.324×700 | o | 2.015×800 |
| p | 0.43×900 | q | 0.073×2000 | r | 10.98×3000 | s | 2.05×4000 |
| t | 5.128×5000 | u | 16.5×6000 | v | 100.1×7000 | w | 0.109×8000 |
| x | 0.0054×9000 | y | 0.003×10000 | z | 0.0004×20000 . | | |

Exercise 2

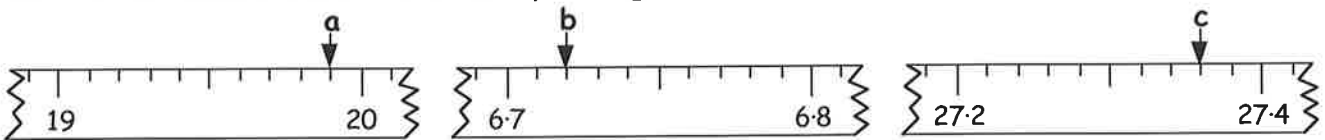
1. Find :-
- | | | | | | | | |
|---|------------------|---|--------------------|---|-------------------|---|--------------------|
| a | $28.2 \div 20$ | b | $108.9 \div 30$ | c | $41.56 \div 40$ | d | $287.5 \div 50$ |
| e | $94.8 \div 60$ | f | $28.0 \div 70$ | g | $8.024 \div 80$ | h | $0.27 \div 90$ |
| i | $10.8 \div 200$ | j | $20.7 \div 300$ | k | $7.6 \div 400$ | l | $5.05 \div 500$ |
| m | $263.4 \div 600$ | n | $7.322 \div 700$ | o | $2.08 \div 800$ | p | $0.45 \div 900$ |
| q | $0.08 \div 2000$ | r | $10.98 \div 3000$ | s | $20.4 \div 4000$ | t | $5.15 \div 5000$ |
| u | $16.5 \div 6000$ | v | $7000.7 \div 7000$ | w | $0.032 \div 8000$ | x | $0.0054 \div 9000$ |
| y | $30 \div 10000$ | z | $500 \div 20000$. | | | | |
2. Find :-
- | | | | | | | | |
|---|-------------------|---|------------------|---|-----------------|---|------------------------|
| a | $544 \div 800$ | b | 5.19×60 | c | $45.43 \div 70$ | d | $327 \div 3000$ |
| e | $1.27 \div 50$ | f | 24.8×70 | g | $22.8 \div 600$ | h | $84 \div 6000$ |
| i | 129.9×80 | j | $0.432 \div 400$ | k | $0.009 \div 90$ | l | 0.0067×3000 . |

Revision Exercise



1. Write these numbers using **digits** :-
- | | | | |
|---|------------------------|---|--------------------------------------|
| a | seven hundred and nine | b | eight thousand, two hundred and six. |
|---|------------------------|---|--------------------------------------|
2. Write these numbers in **words** :-
- | | | | | | | | |
|---|------|---|--------|---|---------|---|------------|
| a | 5306 | b | 19 004 | c | 147 800 | d | 7 895 010. |
|---|------|---|--------|---|---------|---|------------|

3. What does the 8 stand for in the number :-
 a 56 283 b 28 070 c 0.4289 d 2.84439 ?
4. Write the number that comes just :-
 a before 4080 b after 570 999 c before 900 000.
5. Rewrite each set of numbers in order. Start with the largest :-
 a 11 222, 9888, 9543, 10 989, 11 316, 10 898
 b 10.02, 10.98, 10.007, 10.088, 10.0915, 10.0177.
6. What numbers are the arrows pointing to ?



7. a Round to the nearest whole number :- (i) 48.5209 (ii) 8.4701.
 b Round to one decimal place :- (i) 25.76 (ii) 78.246.
 c Round to two decimal places :- (i) 12.1666 (ii) 0.9949.
8. Find :- a $6.8 + 5.7$ b $15.2 - 8.91$ c 19.7×3
 d $18.32 \div 8$ e 7.748×100 f $119.2 \div 10$ g $173 \div 1000$
 h $26.18 \div 20$ i 2.3264×300 j $8.08 \div 40$ k 0.32×2000
9. Find :- a $5 + 9 \times 3$ b $21 - 15 \div 3$ c $10 + 12 \div 2 - 15$
 d $9 \times (11 - 5)$ e $30 - 21 \div 3 - 19$ f $4 + \frac{1}{2}$ of $(40 - 8)$.

You may use a calculator for Q 10.



10. a Cut a pipe 32.5 metres long into 13 equal sections.
 What length is each section ?
- b A 5 litre watering can is leaking 25 ml of liquid every second.
 How long until it is empty ?
- c Thirty six 2.9 metre lengths of rope are laid end to end.
 What is the total length of rope ?
- d There are 17 cola cubes in a packet. Twenty packets are in a box.
 150 boxes on a palette.
 How many cola cubes are on a palette ?

