Decimals 3

1. (a) 4·5 × 2 _____ | (b) 0·1 × 7 _____ | (c) 4·3 × 2 _____ | (d) 5·2 × 4 _____ | (e) 7·6 × 3 _____ | (f) 9·4 × 6 _____

Complete these. **Estimate first.**

2. (a) 3·06 × 3 _____ | (b) 11·3 × 4 _____ | (c) 6·09 × 7 _____ | (d) 27·5 × 6 _____ | (e) 8·71 × 5 _____ | (f) 32·6 × 8 _____

3. (a) 2)6·4 _____ | (b) 3)9·3 _____ | (c) 2)14·8 _____ | (d) 4)24·8 _____ | (e) 5)30·5 _____ | (f) 7)49·7 _____

4. (a) 3)9·24 _____ | (b) 4)8·48 _____ | (c) 5)5·45 _____ | (d) 8)8·64 _____ | (e) 6)24·6 _____ | (f) 7)35·07 _____

5. **Write the numbers to be devided as decimal numbers. Then divide.**

(a) 4)9 _____ | (b) 5)17 _____ | (c) 2)55 _____ | (d) 6)33 _____ | (e) 4)13 _____ | (f) 8)50 _____

6.

Ann went to the Post Office and bought 5 stamps for €3·40.
How much did she pay for each stamp? €_____

7. On the same visit to the Post Office, Ann sent 6 parcels.
Each parcel cost €4·67. How much did sending the 6 parcels cost? €_____

8. **A lap of the school playground is 90m. 4 children decide to run a relay around the playground and each child runs the same distance.**

(a) How far does each child run per lap? _____m

(b) How far does each child run if they run 7 laps? _____m

9. A packet of Fishy Fingers is on sale for €4·64. If there are 8 fingers in each pack, what is the price per finger? €_____

10. **A 25kg bag of potatoes was found to be underweight by 2·5kg.**

(a) What is the actual weight of this bag? _____kg

(b) What would be the total weight of 9 of these underweight bags? _____kg

(c) What would be the total weight missing from these 9 bags? _____kg

11. What is the difference between 3·68 × 7 and 79·2 ÷ 3? _____

A quick look back 7

LOOK BACK

1. Write in decimal form.

$45 + \frac{8}{100} =$ _____

2.

37cm = _____ m

3.

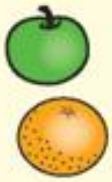
A Credit Union inter-schools quiz started at half past 6. They took an interval 50 minutes later. Show this time on the clock.

4.

Write 5 as a fraction of 9. $\frac{\square}{\square}$

5. How many centimetres are there in $1\frac{3}{4}$m? _____ cm

6.



Peter spent $\frac{1}{6}$ of his pocket money on an apple and $\frac{2}{9}$ of it on an orange. Which did he spend more on? _____

7. Find $\frac{4}{5}$ of 40. _____

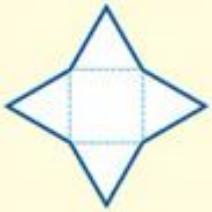
8. A magazine is on sale for €4·58. Find the cost of 6 magazines.

€ _____

9. 3·4m = _____ cm

10. This is the net for which 3-D shape?

_____



11. Place the correct symbol (>, = or <) between these fractions.

$\frac{7}{12}$ ◯ $\frac{3}{4}$

12. A pack containing 8 batteries costs €9·92. What is the cost per battery?

€ _____

13. $5\frac{6}{100}$m = _____ cm

14.

Ellie got €2·38 in change from the €20 she gave to the shopkeeper. What did her shopping cost her?

€ _____

15. Circle the equivalent fractions.

$\frac{4}{5}$ $\frac{6}{9}$ $\frac{5}{8}$ $\frac{2}{3}$

16. 9:06

This clock is 17 minutes fast. What time should it show? ___ : ___

17. 75 ÷ 8 = _____ R _____

18.

53 eggs were packed into cartons holding 6 eggs. How many eggs were left over? _____

19.

Find 0·25 of 36. _____

20. Joan paid €9·48 for 4 hours parking in a car park. How much did she pay per hour?

€ _____

Chapter 24: Pattern

1. Continue these patterns.

(a) _____ _____ _____

(b) _____ _____ _____ _____ _____ _____

(c) 3, 6, 9, 12, 15, ____, ____, ____

(d) 5, 11, ____, 23, ____, 35

(e) 3, 6, 10, 15, 21, ____, ____, ____

(f) 41, 37, ____, ____, 25, ____

(g) 54, 50, 46, 42, 38, ____, ____, ____

(h) 110, ____, 310, ____, 510

(i) 97, 89, 81, 73, 65, ____, ____, ____

(j) 2, 14, ____, 38, ____, ____

(k) 470, 480, 490, ____, ____, 520

(l) 680, 640, ____, ____, 520

(m) 125, 150, ____, 200, ____, ____

(n) 320, 620, ____, 1220, ____

2. Complete these grids. Observe the patterns.

(a)

+	4	7	8	11
3				
13				
23				
33				
43				

(b)

+	3	5	9	10
37				
47				
57				
67				
77				

(c)

−	32	42	62	72
2				
4				
6				
8				
10				

(d)

−	17	37	67	87
1				
3				
5				
7				
11				

3. Complete the patterns on these sections of the **100 square**.

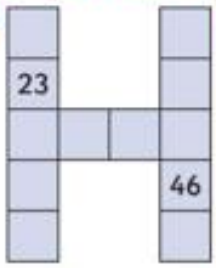
(a)

12				
				36
		44		

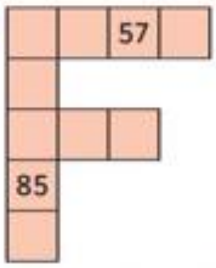
(b)

		58		
	77			

(c)

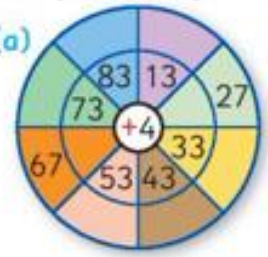


(d)

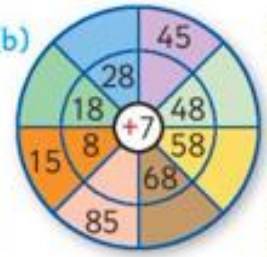


4. Complete the pattern on each wheel.

(a)



(b)



(c)

(d)

Chapter 25: Time 2

Rewrite the following in a different format.

1. (a) 70 mins ___hr ___mins
(b) 87 mins ___hr ___mins
(c) 110 mins ___hr ___mins
(d) 180 mins ___hr ___mins

2. (a) $\frac{3}{4}$ hr = ___mins
(b) $\frac{1}{5}$ hr = ___mins
(c) $\frac{2}{3}$ hr = ___mins
(d) $2\frac{1}{6}$ hr = ___mins

3.

	hrs	mins
(a)	1	19
	+ 1	34

	hrs	mins
(b)	2	46
	+ 3	13

	hrs	mins
(c)	4	24
	+ 2	27

	hrs	mins
(d)	6	54
	+ 2	05

4.

	hrs	mins
(a)	2	35
	+ 2	35

	hrs	mins
(b)	3	47
	+ 2	26

	hrs	mins
(c)	7	18
	+ 2	48

	hrs	mins
(d)	4	7
	+ 2	56

5. Teacher started a test at $\frac{1}{4}$ past 1 and it lasted for 50 minutes.
(a) At what time did the test end? _____
(b) How many minutes less than an hour was the test? _____

6. (a) Niall and Kieran cycled for 72 mins this morning. If they set out at 8:25, at what time did they finish? [:]
(b) If they then took a half-hour break and then cycled again, at what time did they resume? [:]

7.

	hrs	mins
(a)	4	29
	− 1	17

	hrs	mins
(b)	6	53
	− 2	29

	hrs	mins
(c)	5	11
	− 1	38

	hrs	mins
(d)	4	41
	− 1	45

8.

	hrs	mins
(a)	8	10
	− 3	23

	hrs	mins
(b)	5	28
	− 3	47

	hrs	mins
(c)	6	8
	− 1	38

	hrs	mins
(d)	7	14
	− 2	8

9. (a) A train takes 2 hrs 13 minutes to do a journey. A new train will shorten this journey time by 27 minutes. How long will the journey then take? _____
(b) This train leaves at 07:08 but Suki wants to be there $\frac{1}{4}$ of an hour ahead of this time. What time should Suki arrive at the station? [:]

Based on *Busy at Maths 4*, pages 125–127

Time 2

Here is the Clár an Lae for the All-Ireland final.
Put your favourite teams in the blank spaces.

Match programme

3:40 _____ take to the pitch

3:42 _____ take to the pitch

3:45 Referee and officials on the pitch

3:55 Coin toss takes place

3:58 Amhrán na bhFiann

4:00 Tús: Start of 1st half

4:37* Leath-am. Half-time _____ leave field first followed by _____

4:38* Exhibition games

4:52* Tús: Start of 2nd half

5:30* Críoch an chluiche. Game ends

5:37* Cup presented to _____

Did your team win? _____

1. How long was there between the first team on the pitch and the coin toss? _____

2. Write the time of both teams arriving on the pitch in analogue time.
   (a) _____ (b) _____

3. For how many minutes was the second team on the pitch before the start of the first half? _____

4. Write the time between the first team on the pitch and the coin toss as a fraction of an hour. _____

5. How many minutes less than $\frac{1}{3}$ hour do the exhibition games take? _____

6. Write as minutes the length of time between the first team on the pitch and the start of the 2nd half. _____

7. What length of time is between 'referee and officials on the pitch' and 'Game ends'? _____

8. How many minutes were planned for the 2nd half? _____

9. For how many minutes must the winning captain wait to receive the cup from the start of the second half? _____

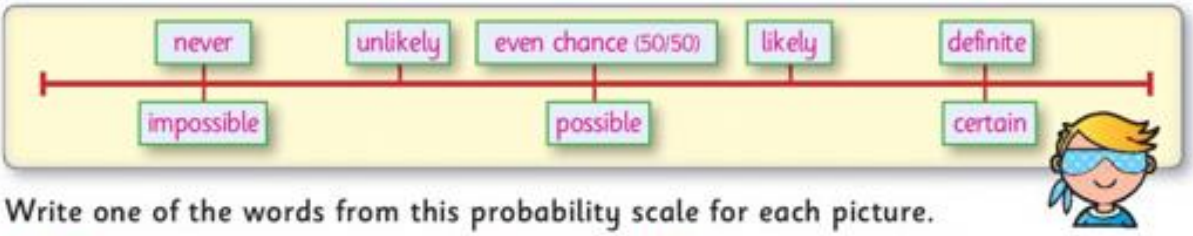
10. How long is it between the singing of Amhrán na bhFiann and the presentation of the cup? _____

11. Seán and Gearóid left home $2\frac{1}{4}$ hrs before the first team took to the pitch. At what time did they set off for the match? [:]

12. After the final, Seán and Gearóid took $3\frac{3}{4}$ hrs to travel home. If they left at cup presentation time, what time did they arrive home? [:]

13. Why do you think there is an * over certain planned times? _____

Chapter 26: Chance



Write one of the words from this probability scale for each picture.

1. (a) You will pick a yellow cube.

_____

(b) You will pick a green cube.

_____

(c) You will pick a red cube.

_____

(d) You will pick a yellow cube.

_____

2. Choose a word from the probability scale to answer each statement.

(a) When you turn on a tap, milk will come out.

_____

(b) When you wake up on Sunday morning, it will be raining.

_____

(c) You will become a famous artist when you grow up.

_____

(d) If you play with a knife, you will cut yourself.

_____

(e) You will find a €2 coin in your breakfast cereal.

_____

(f) County Kerry will be renamed as Little Cork.

_____

(g) When you turn on the tap, water will come out.

_____

(h) A dragon will come to live under your bed.

_____

3. These ten cards are shuffled and placed face down. Use a word from the probability scale to show the probability of turning over the following:

(a) A heart: _____

(b) A multiple of 2: _____

(c) The king of spades: _____

(d) A multiple of 5: _____

(e) A number greater than 7: _____

(f) The 8 of hearts: _____

(g) An even number card: _____

(h) A picture card: _____

Based on *Busy at Maths 4*, pages 129–132

Chance

1. (a)

Mags will pick a red apple.

impossible ☐
possible ☐
certain ☐

(b)

Mags will pick a red apple.

impossible ☐
possible ☐
certain ☐

(c)

Mags will pick a red apple.

impossible ☐
possible ☐
certain ☐

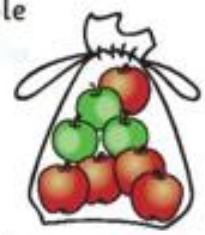
2. Colour the tennis balls in each box to make the outcomes true.

(a) I am more likely to pick a yellow ball and less likely to pick a red ball.

(b) I am more likely to pick a green ball and less likely to pick a blue ball.

(c) I am more likely to pick a blue ball and less likely to pick a red ball.

3. Keith puts these apples into a bag. He asks Ciarán to pick an apple from the bag at random.



(a) What colour apple is Ciarán more likely to get? _____

(b) What is the probability that he will get a green apple? _____

(c) What are his chances of picking a red apple? _____

(d) Ciarán picks out an apple randomly and then replaces it in the bag. He does this 16 times. How many red apples does he expect to get? _____

(e) If Ciarán wants to make it equally likely that he will choose a red or a green apple, how many extra green apples should he put in the bag? _____

4. Two friends are using this spinner to decide who gets to choose which film they will watch.

Paul has chosen blue.

Paula has chosen yellow.

What are Paul's chances of winning? _____ in _____

What are Paula's chances of winning? _____ in _____

Is this a fair way to decide? _____

Chapter 27: Length 2

1. Write the following measurements in **metres**.

(a) 0·3km = _____ m
(b) $\frac{3}{4}$ km = _____ m
(c) 0·17km = _____ m
(d) 0·6km = _____ m
(e) $\frac{1}{5}$ km = _____ m
(f) $\frac{37}{100}$ km = _____ m
(g) 0·51km = _____ m
(h) $\frac{7}{10}$ km = _____ m
(i) 0·08km = _____ m

2. Write these metre lengths as a (i) **fraction** and a (ii) **decimal** of a kilometre.

(a) 350m = _____
(b) 800m = _____
(c) 110m = _____
(d) 500m = _____
(e) 90m = _____
(f) 150m = _____
(g) 43m = _____
(h) 250m = _____

3.
(a) 7·36km + 5·87km = _____
(b) 8·07km + 3·79km = _____
(c) 6·65km + 5·85km = _____
(d) 3·56km + 6·48km = _____
(e) 5·72km + 7·38km = _____

4.
(a) 8·53km − 2·38km = _____
(b) 5·26km − 2·77km = _____
(c) 6·18km − 2·19km = _____
(d) 9·03km − 7·32km = _____
(e) 7·05km − 6·28km = _____

5.
(a) 6·38km × 6 = _____
(b) 2·59km × 9 = _____
(c) 5·48km × 4 = _____
(d) 7·26km × 5 = _____
(e) 8·82km × 7 = _____

6.
(a) 6)8·28km = _____
(b) 3)8·01km = _____
(c) 5)8·95km = _____
(d) 7)8·61km = _____
(e) 8)9·52km = _____

7. Anita threw a javelin a total of 164·76m over 3 valid throws in a competition. What was the average distance per throw? _____ m

8. At the same competition, Terry threw a javelin 5 times and scored an average of 82·75m. What total distance did he throw? _____ m

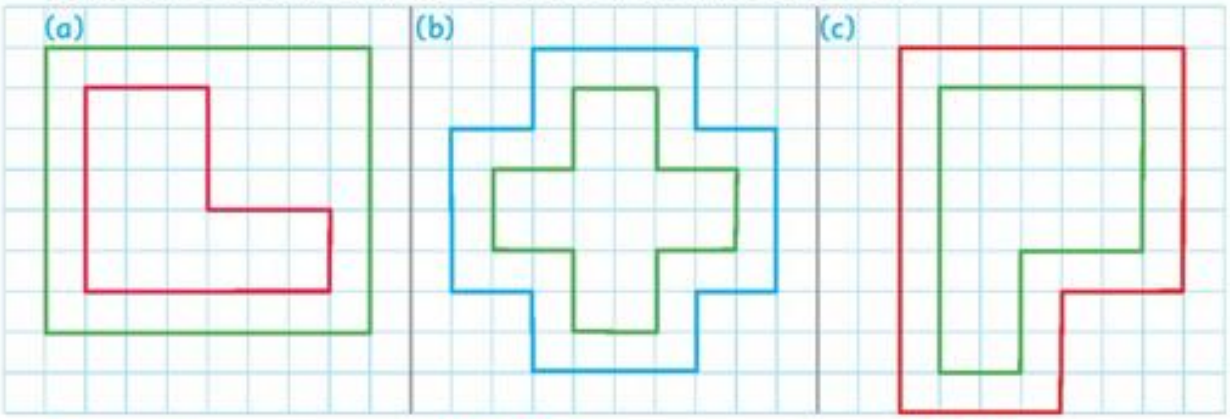
9. During a multi-event competition, Kelly high-jumped 1·66m, threw a shot put 10·39m and had a long jump of 6·32m. She also ran the 100m hurdles as well as an 800m track race. What total distance did Kelly complete in this multi-event? _____ m

10.
(a) (2·78km + 1·59km) × 6 = _____
(b) (7km 360m − 4·48km) × 5 = _____
(c) (5km 38m + 3·668km) ÷ 2 = _____
(d) ($6\frac{7}{10}$ km − 1km 875m) ÷ 5 = _____
(e) (27·804km − $4\frac{764}{1000}$km) ÷ 6 = _____
(f) (17km 900m + $6\frac{85}{100}$ km) ÷ 9 = _____
(g) (26km − 8km 640m) ÷ 4 = _____
(h) ($7\frac{307}{1000}$km + 6996m) × 8 = _____

Based on *Busy at Maths 4*, pages 133–135

Length 2

1. Measure the length of all lines in both shapes of each diagram and calculate the perimeter for each. Each side of each square represents 1cm.

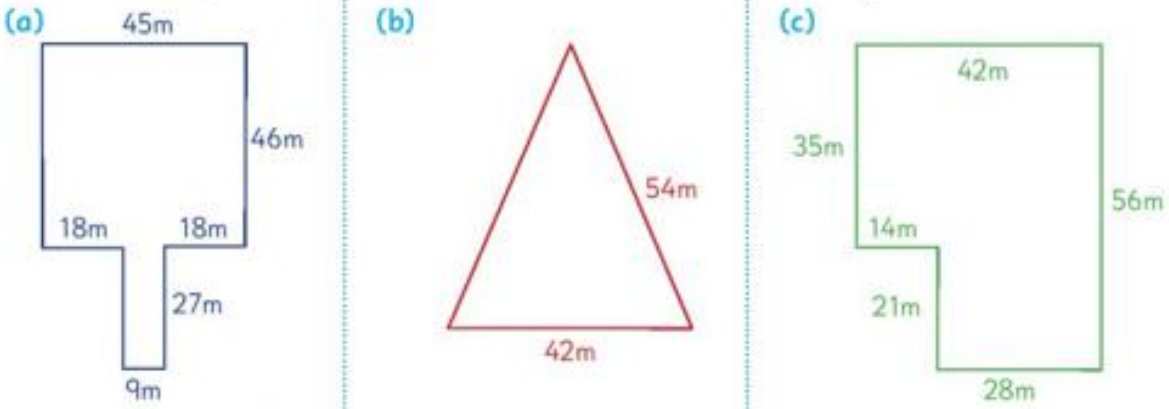


(a) (i) green: _____cm
(a) (ii) red: _____cm

(b) (i) blue: _____cm
(b) (ii) green: _____cm

(c) (i) red: _____cm
(c) (ii) green: _____cm

2. These drawings are not exact measurements. Calculate the perimeter of each.



(a) _____m

(b) _____m

(c) _____m

3. Draw shapes at (a), (b) and (c) below that have the indicated perimeters. Use your ruler.

(a) perimeter = 18cm

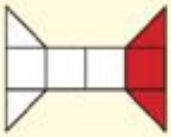
(b) perimeter = 15cm

(c) perimeter = 20cm

A quick look back 8

LOOK BACK

1. What fraction of this shape is coloured? $\frac{\square}{\square}$



2. How many minutes are there in $2\frac{1}{4}$ hrs? _____

3. Write the missing number in this sequence.

76, 65, 54, ____, 32, 21

4. What is the value of the underlined 3?

€25·8<u>3</u> _____

5.

hrs	mins
4	43
+ 2	29
_____	

6. What are the chances of picking a **red** apple from this basket?

_____ out of _____

7. $\frac{63}{100}$ km = _____ m

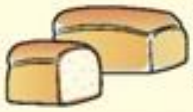
8. 56·43 – 0·8 = _____

9.

What is the perimeter of this regular pentagon?

_____

10. $\frac{2}{7}$ of the loaves of bread on display in the shop are out of date. There are 10 out-of-date loaves. How many are fit for sale? _____



11.

hrs	mins
5	27
– 1	53
_____	

12. Colour this spinner to leave a 3 in 4 chance of stopping on red.

13. 72 ÷ 6 = _____

14. $2\frac{1}{5}$ km = _____ m

15. 3 × 7 × 10 = _____

16. Paul wants a new computer game and trades two old games for €7·15 and €9·40. How much more does he need to reach the price of €25?

€ _____

17. $\frac{1}{4}$ kg of grapes cost 73c. What would $1\frac{1}{2}$ kg cost? € _____

18. Write an equivalent fraction for:

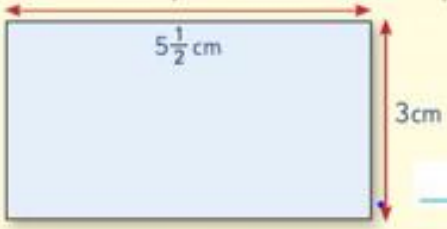
$\frac{24}{27} = \frac{\square}{\square}$

19. What shape is this a net of?

_____

_____

20. What is the perimeter of this shape?



_____ cm