Adam's Maths

Learning, growing, alhamdulillah

Key Stage 2 · Ages 8–9

Year 4 · Term 3

Practice & Question Book



Name: _____

Decimals · Money · Time · Shapes and symmetry · Charts · Coordinates



Assalamu alaikum! I'm Adam.

Welcome to your Year 4, Term 3 maths book. This term our journey takes us to **Masjid al-Aqsa**. I've filled this book with puzzles to practise everything you're learning in class.

- Say **Bismillah** and do **one page** at a time.
- Read **Adam's tip** at the top and write your answers in the ☐ boxes.
- Colour the stars when you finish:
  - ★ Keep trying, insha'Allah
  - ★★ Alhamdulillah, good
  - ★★★ Mashallah, excellent!

My star tracker

Page	Topic	Stars
3	Decimals (part 1)	☆☆☆
4	Decimals (part 2)	☆☆☆
5	Decimals (part 3)	☆☆☆
6	Money (part 1)	☆☆☆
7	Money (part 2)	☆☆☆
8	Money (part 3)	☆☆☆
9	Time (part 1)	☆☆☆
10	Time (part 2)	☆☆☆
11	Time (part 3)	☆☆☆
12	Shapes and symmetry (part 1)	☆☆☆
13	Shapes and symmetry (part 2)	☆☆☆
14	Shapes and symmetry (part 3)	☆☆☆
15	Charts (part 1)	☆☆☆
16	Charts (part 2)	☆☆☆
17	Charts (part 3)	☆☆☆
18	Coordinates (part 1)	☆☆☆
19	Coordinates (part 2)	☆☆☆
20	Coordinates (part 3)	☆☆☆
21	End-of-term challenge	☆☆☆

For grown-ups: This book follows the Year 4 National Curriculum for England, in the order most schools teach it during the summer term. Every page opens with a verse or hadith about a good value, such as caring for orphans, feeding the hungry, giving from what Allah has given us, spreading salam and looking after the earth. The questions are set around the same good deeds. Answers start on page 22. Print on A4 at 100% scale and staple down the left-hand side. More free resources at **adamsclassroom.co.uk**.



Decimals Part 1

Adam's tip
Hundredths are 2 places after the decimal point.

"Your smile for your brother is charity." **Hadith, Tirmidhi**

A Write as decimals.

$\frac{2}{10}$ = ☐

$\frac{16}{100}$ = ☐

85 hundredths = ☐

$\frac{39}{100}$ = ☐

$\frac{6}{10}$ = ☐

Working out

B Multiply and divide by 10, 100.

64 ÷ 10 = ☐

21 ÷ 100 = ☐

34 ÷ 10 = ☐

90 ÷ 10 = ☐

70 ÷ 100 = ☐

54 ÷ 100 = ☐

Working out

C Write <, > or =.

2.55 ◯ 2.56

9.35 ◯ 9.34

1.25 ◯ 1.35

8.61 ◯ 8.51

5.82 ◯ 5.83

8 ◯ 7.1

How did I do? ☆ ☆ ☆

SubhanAllah, look how you're growing!



Decimals Part 2

Adam's tip
Hundredths are 2 places after the decimal point.

Believe in Allah and His Messenger and spend out of that in which He has made you successors. Qur'an 57:7

A Round these decimals.

29.1 to the nearest whole number: ☐

11.9 to the nearest whole number: ☐

78.6 to the nearest whole number: ☐

65.4 to the nearest whole number: ☐

84.7 to the nearest whole number: ☐

66.4 to the nearest whole number: ☐

Working out

B Write as decimals.

$\frac{76}{100}$ = ☐

$\frac{9}{10}$ = ☐

$\frac{24}{100}$ = ☐

93 hundredths = ☐

$\frac{5}{10}$ = ☐

$\frac{3}{10}$ = ☐

Working out



Decimals Part 3

Adam's tip
Hundredths are 2 places after the decimal point.

And know that your properties and your children are but a trial, and that Allah has with Him a great reward. **Qur'an 8:28**

A Multiply and divide by 10, 100.

38 ÷ 100 = ☐ 23 ÷ 100 = ☐ 99 ÷ 100 = ☐

79 ÷ 100 = ☐ 34 ÷ 10 = ☐ 71 ÷ 10 = ☐

Working out

B Write <, > or =.

1.61 ◯ 1.51 4.92 ◯ 5.01 8.96 ◯ 8.86

4.74 ◯ 4.75 2.15 ◯ 2.05 8.84 ◯ 8.94

C Write as decimals.

$\frac{6}{10}$ = ☐ 38 hundredths = ☐ $\frac{1}{100}$ = ☐

91 hundredths = ☐ 14 hundredths = ☐ $\frac{1}{10}$ = ☐

Working out



Money Part 1

Adam's tip
£1 = 100p, so £3.45 is 3 pounds and 45 pence.

Those who spend their wealth by night and by day, secretly and publicly, will have their reward with their Lord. **Qur'an 2:274**

A Add the amounts.

£8.10 + £8.10 = ☐

£6.80 + £8.50 = ☐

£7.50 + £2.50 = ☐

£8.00 + £6.10 = ☐

£7.80 + £8.00 = ☐

£8.60 + £5.20 = ☐

Working out

B How much change?

Cost £6.49, pay £10.00. Change: ☐

Cost £2.05, pay £10.00. Change: ☐

Cost £8.07, pay £10.00. Change: ☐

Cost £1.36, pay £5.00. Change: ☐

Cost £2.39, pay £5.00. Change: ☐

Cost £8.69, pay £10.00. Change: ☐

Money Part 2

Adam's tip
£1 = 100p, so £3.45 is 3 pounds and 45 pence.

And know that your properties and your children are but a trial, and that Allah has with Him a great reward. — Qur'an 8:28

A The masjid charity stall. All the money goes to the orphans' fund.

puzzle	kite	plant pot	teddy
£3.81	£3.06	£4.36	£1.03

puzzle + kite = ☐

2 × plant pot = ☐

How much more is the teddy than the puzzle? ☐

B Money problems.

Alhamdulillah, Aisha was given £24 for Eid. Aisha decided to give a quarter of it to people in need. How much did Aisha give?

working out

☐

Zayd had £20.00 saved. Zayd gave £2.30 to the food bank and £4.19 to the orphans' fund. How much does Zayd have left?

working out

☐



Money Part 3

Adam's tip
£1 = 100p, so £3.45 is 3 pounds and 45 pence.

Believe in Allah and His Messenger and spend out of that in which He has made you successors. — Qur'an 57:7

A Add the amounts.

£9.10 + £3.70 = ☐

£6.00 + £8.50 = ☐

£9.30 + £3.90 = ☐

£6.40 + £9.20 = ☐

£6.80 + £3.90 = ☐

£5.10 + £2.50 = ☐

Working out

B How much change?

Cost £1.63, pay £5.00. Change: ☐

Cost £2.68, pay £5.00. Change: ☐

Cost £5.99, pay £20.00. Change: ☐

Cost £12.07, pay £20.00. Change: ☐

Cost £1.54, pay £5.00. Change: ☐

Cost £1.81, pay £5.00. Change: ☐

How did I do? ☆ ☆ ☆

Mashallah, well done!

Time Part 1

Adam's tip
For the 24-hour clock, add 12 to pm hours.

Indeed, prayer has been decreed upon the believers at specified times. Qur'an 4:103

A What time does each clock show? Write it as a digital time.






☐ : ☐ ☐ : ☐ ☐ : ☐ ☐ : ☐






☐ : ☐ ☐ : ☐ ☐ : ☐ ☐ : ☐

B 12-hour and 24-hour clock.

3:10 pm = ☐ : ☐

1:05 am = ☐ : ☐

6:45 pm = ☐ : ☐

2:45 pm = ☐ : ☐

01:25 = ☐ am / pm

02:00 = ☐ am / pm

How did I do? ☆ ☆ ☆

Alhamdulillah, that's excellent!



Time Part 2

Adam's tip
For the 24-hour clock, add 12 to pm hours.

O you who believe, seek help through patience and prayer. Indeed, Allah is with the patient. Qur'an 2:153

A How long does it last?

Swimming starts at 8:20 and ends at 8:40. It lasts ☐ minutes.

Qur'an club starts at 12:05 and ends at 12:25. It lasts ☐ minutes.

The Eid fair starts at 9:05 and ends at 9:50. It lasts ☐ minutes.

The masjid bake sale starts at 12:10 and ends at 13:20. It lasts ☐ minutes.

B Time facts.

There are ☐ hours in a day.

There are ☐ days in a leap year.

There are ☐ seconds in a minute.

There are ☐ days in a week.

2 hours = ☐ minutes

420 seconds = ☐ minutes

2 weeks = ☐ days

6 hours = ☐ minutes

How did I do? ☆ ☆ ☆

Barakallahu feek!



Time Part 3

Adam's tip
For the 24-hour clock, add 12 to pm hours.

Your Lord has decreed that you worship none but Him, and that you be good to your parents. — Qur'an 17:23

A Read the masjid's salah timetable.

Salah	Time
Fajr	05:07
Dhuhr	12:54
Asr	16:09
Maghrib	18:05
Isha	19:35

How many minutes are there between Asr and Maghrib?

☐ minutes

Write the time of Maghrib as a 12-hour time.

☐

How long is it from Maghrib to Isha? ☐ minutes

B What time does each clock show? Write it as a digital time.


☐ : ☐


☐ : ☐


☐ : ☐


☐ : ☐


☐ : ☐


☐ : ☐


☐ : ☐


☐ : ☐

How did I do? ☆ ☆ ☆

SubhanAllah, look how you're growing!



Shapes and symmetry Part 1

Adam's tip
Acute angles are less than 90°. Obtuse angles are between 90° and 180°.

Indeed, I will make upon the earth a successive authority (khalifah). — Qur'an 2:30

A What type of angle is each one?

Choose from: acute · right angle · obtuse



_____ _____ _____ _____ _____

B Name each type of triangle.

Word bank: equilateral · isosceles · scalene · right-angled



_____ _____ _____ _____

C Draw all the lines of symmetry. How many are there?



lines: ☐



lines: ☐



lines: ☐



lines: ☐

How did I do? ☆ ☆ ☆

Keep going, insha'Allah!



Shapes and symmetry Part 2

Adam's tip
Acute angles are less than 90°. Obtuse angles are between 90° and 180°.

"If a Muslim plants a tree and a bird, a person or an animal eats from it, it is counted as charity for him." — Hadith, Bukhari

A Name each type of line.

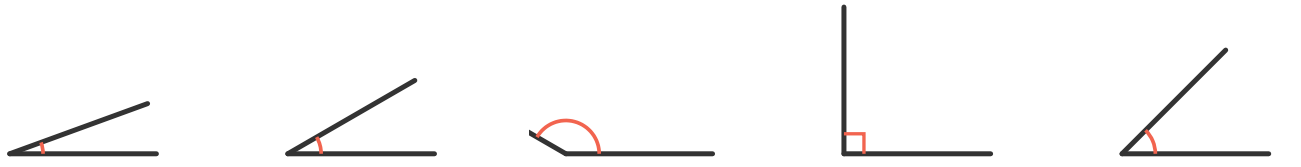
Word bank: horizontal · vertical · parallel · perpendicular



_____ _____ _____ _____

B What type of angle is each one?

Choose from: acute · right angle · obtuse



_____ _____ _____ _____ _____

C Name each type of triangle.

Word bank: equilateral · isosceles · scalene · right-angled



_____ _____ _____ _____



Shapes and symmetry Part 3

Adam's tip
Acute angles are less than 90°. Obtuse angles are between 90° and 180°.

The Prophet ﷺ told of a man who gave water to a thirsty dog, so Allah thanked him and forgave him. **Hadith, Bukhari**

A Draw all the lines of symmetry. How many are there?



lines: ☐



lines: ☐



lines: ☐



lines: ☐

B Name each type of line.

Word bank: horizontal · vertical · parallel · perpendicular

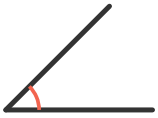




C What type of angle is each one?

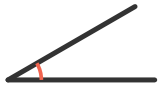
Choose from: acute · right angle · obtuse











How did I do? ☆ ☆ ☆

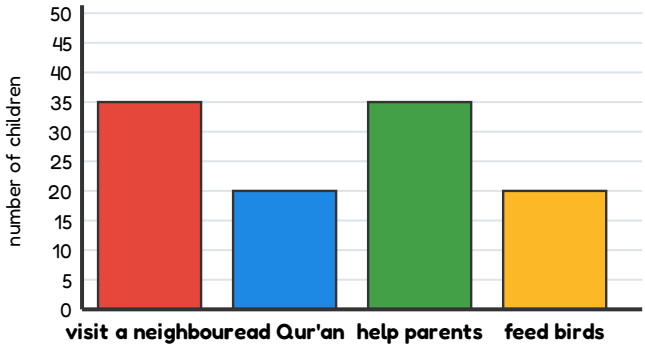
Alhamdulillah for learning!

Charts Part 1

Adam's tip
Read across from the top of the bar to the scale.

If you are grateful, I will surely increase you. Qur'an 14:7

A Read the bar chart.

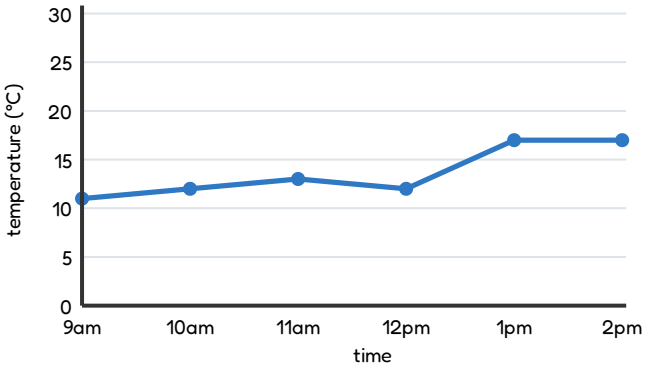


How many chose visit a neighbour?

How many more chose visit a neighbour than read Qur'an?

How many altogether?

B Read the line graph.



What was the temperature at 11am?

°C

When was it warmest?

How much did it rise from 9am to 2pm?

°C

Charts Part 2

Adam's tip
Read across from the top of the bar to the scale.

Indeed, I will make upon the earth a successive authority (khalifah). **Qur'an 2:30**

A Read the tally chart.

Choice	Tally
visit a neighbour	𝍸
read Qur'an	II
help parents	𝍸 𝍸
feed birds	𝍸 𝍸 I

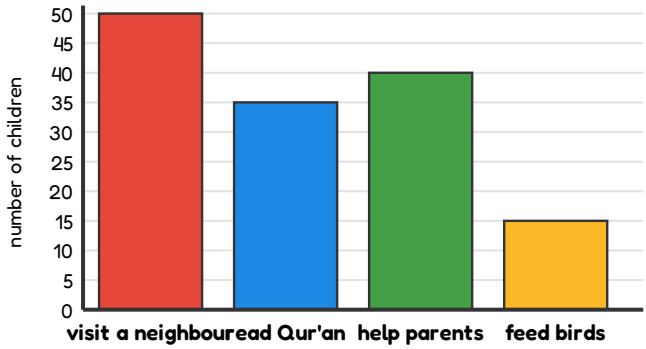
How many chose visit a neighbour?

Which was the most popular? _____

How many more chose feed birds than read Qur'an?

How many altogether?

B Read the bar chart.



How many chose visit a neighbour?

How many more chose visit a neighbour than feed birds?

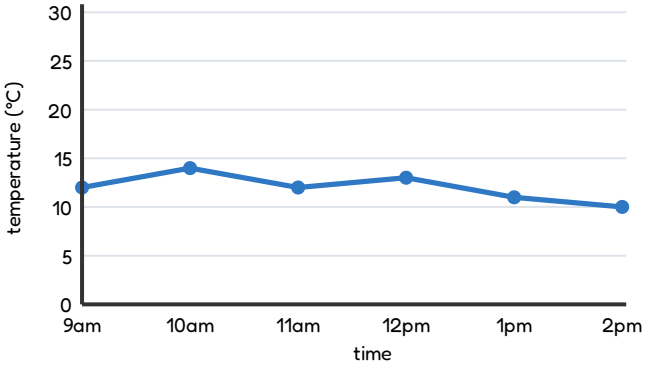
How many altogether?

Charts Part 3

Adam's tip
Read across from the top of the bar to the scale.

Eat and drink, but be not excessive. Indeed, He likes not those who commit excess. Qur'an 7:31

A Read the line graph.



What was the temperature at 11am?

☐ °C

When was it warmest? _____

How much did it rise from 9am to 2pm?

☐ °C

B Read the tally chart.

Choice	Tally
visit a neighbour	𝍸 𝍸 |
read Qur'an	𝍸 𝍸 ||
help parents	||
feed birds	𝍸 |||

How many chose visit a neighbour?

☐

Which was the most popular?

_____

How many more chose read Qur'an than help parents?

☐

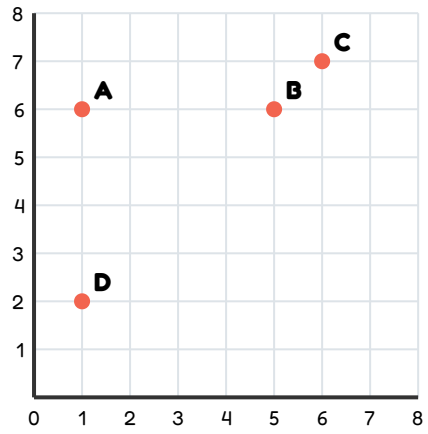
How many altogether? ☐

Coordinates Part 1

Adam's tip
Along the corridor, then up the stairs: (x, y).

Indeed, I will make upon the earth a successive authority (khalifah). **Qur'an 2:30**

A Coordinates: write the coordinates of each point.



A = (☐ , ☐)

B = (☐ , ☐)

C = (☐ , ☐)

D = (☐ , ☐)

Plot point E at (4, 1).

B Translations: where does the point move to?

(6, 2) moves 1 right and 1 down → (☐ , ☐)

(6, 6) moves 2 right and 2 down → (☐ , ☐)

(5, 6) moves 2 right and 1 down → (☐ , ☐)

(3, 2) moves 3 left → (☐ , ☐)

How did I do? ☆ ☆ ☆

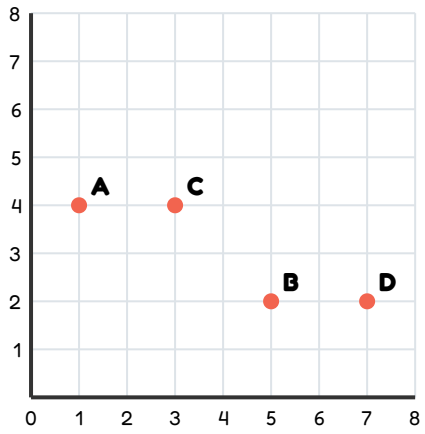
Barakallahu feek!

Coordinates Part 2

Adam's tip
Along the corridor, then up the stairs: (x, y).

"If a Muslim plants a tree and a bird, a person or an animal eats from it, it is counted as charity for him." **Hadith, Bukhari**

A Coordinates: write the coordinates of each point.



A = (☐ , ☐)

B = (☐ , ☐)

C = (☐ , ☐)

D = (☐ , ☐)

Plot point E at (7, 5).

B Translations: where does the point move to?

(1, 6) moves 3 right → (☐ , ☐)

(3, 2) moves 1 right and 1 up → (☐ , ☐)

(2, 2) moves 2 right and 2 down → (☐ , ☐)

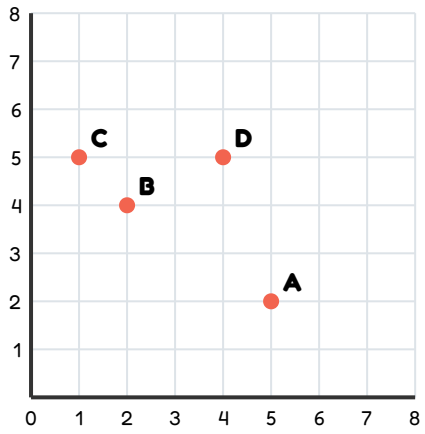
(5, 6) moves 2 right and 1 down → (☐ , ☐)

Coordinates Part 3

Adam's tip
Along the corridor, then up the stairs: (x, y).

The Prophet ﷺ told of a man who gave water to a thirsty dog, so Allah thanked him and forgave him. **Hadith, Bukhari**

A Coordinates: write the coordinates of each point.



A = (☐ , ☐)

B = (☐ , ☐)

C = (☐ , ☐)

D = (☐ , ☐)

Plot point E at (2, 2).

B Translations: where does the point move to?

(5, 4) moves 3 right and 2 down → (☐ , ☐)

(1, 1) moves 2 right and 1 up → (☐ , ☐)

(5, 1) moves 3 right and 1 up → (☐ , ☐)

(6, 3) moves 1 right and 2 up → (☐ , ☐)



End-of-term challenge

Adam's tip
Say Bismillah, take your time and check every answer. You can do it!

My Lord, increase me in knowledge. — Qur'an 20:114

Time: 20 minutes **Score: ____ / 20**

1. 48 ÷ 10 = ____
2. 44p + 28p = ____
3. 6 hours = ____ minutes
4. 5,010 + 830 = ____
5. 4,720 − 200 = ____
6. 3 × 4 = ____
7. 72 ÷ 10 = ____
8. 34p + 27p = ____
9. 6 weeks = ____ days
10. 4,256 + 8,000 = ____
11. 8,479 − 4,000 = ____
12. 120 ÷ 10 = ____
13. 30 ÷ 10 = ____
14. 13p + 18p = ____
15. 360 minutes = ____ hours
16. 4,728 + 800 = ____
17. 7,491 − 4,000 = ____
18. 44 ÷ 4 = ____
19. 8 ÷ 10 = ____
20. 23p + 33p = ____

How did I do? ☆ ☆ ☆

Mashallah, brilliant work!



For grown-ups

Answers

p.3 Decimals (part 1)

A: 0.2, 0.16, 0.85, 0.39, 0.6
B: 6.4, 0.21, 3.4, 9, 0.7, 0.54
C: <, >, <, >, <, >

p.4 Decimals (part 2)

A: 29, 12, 79, 65, 85, 66
B: 0.76, 0.9, 0.24, 0.93, 0.5, 0.3

p.5 Decimals (part 3)

A: 0.38, 0.23, 0.99, 0.79, 3.4, 7.1
B: >, <, >, <, >, <
C: 0.6, 0.38, 0.01, 0.91, 0.14, 0.1

p.6 Money (part 1)

A: £16.20, £15.30, £10.00, £14.10, £15.80, £13.80
B: £3.51, £7.95, £1.93, £3.64, £2.61, £1.31

p.7 Money (part 2)

A: £6.87, £8.72, £2.78
B: £6, £13.51

p.8 Money (part 3)

A: £12.80, £14.50, £13.20, £15.60, £10.70, £7.60
B: £3.37, £2.32, £14.01, £7.93, £3.46, £3.19

p.9 Time (part 1)

A: 1:53; 9:36; 12:22; 5:21; 2:33; 1:37; 11:33; 11:35
B: 15:10, 01:05, 18:45, 14:45, 1:25 am, 2:00 am

p.10 Time (part 2)

A: 20, 20, 45, 70
B: 24, 366, 60, 7, 120, 7, 14, 360

p.11 Time (part 3)

A: 116, 6:05 pm, 90
B: 10:50; 8:20; 8:28; 3:16; 1:43; 5:34; 10:24; 1:29

p.12 Shapes and symmetry (part 1)

A: right angle, acute, obtuse, acute, obtuse
B: equilateral, right-angled, scalene, isosceles
C: heart 1, square 4, rectangle 2, pentagon 5

p.13 Shapes and symmetry (part 2)

A: vertical, perpendicular, horizontal, parallel
B: acute, acute, obtuse, right angle, acute
C: scalene, right-angled, equilateral, isosceles

p.14 Shapes and symmetry (part 3)

A: pentagon 5, heart 1, triangle 3, square 4
B: perpendicular, parallel, horizontal, vertical
C: right angle, acute, acute, obtuse, acute

p.15 Charts (part 1)

A: 35, 15, 110
B: 13, 1pm, 6



For grown-ups

Answers (continued)

p.16 Charts (part 2)

A: 4, feed birds, 9, 26
B: 50, 35, 140

p.17 Charts (part 3)

A: 12, 10am, -2
B: 11, read Qur'an, 10, 33

p.18 Coordinates (part 1)

A: A (1, 6), B (5, 6), C (6, 7), D (1, 2); E plotted at (4, 1)
B: (7, 1), (8, 4), (7, 5), (0, 2)

p.19 Coordinates (part 2)

A: A (1, 4), B (5, 2), C (3, 4), D (7, 2); E plotted at (7, 5)
B: (4, 6), (4, 3), (4, 0), (7, 5)

p.20 Coordinates (part 3)

A: A (5, 2), B (2, 4), C (1, 5), D (4, 5); E plotted at (2, 2)
B: (8, 2), (3, 2), (8, 2), (7, 5)

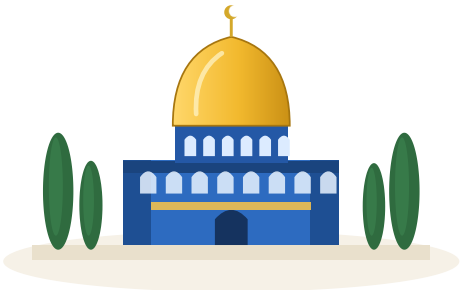
p.21 End-of-term challenge

1) 4.8, 2) 72p, 3) 360, 4) 5,840, 5) 4,520, 6) 12, 7) 7.2, 8) 61p, 9) 42, 10) 12,256, 11) 4,479, 12) 12, 13) 3, 14) 31p, 15) 6, 16) 5,528, 17) 3,491, 18) 11, 19) 0.8, 20) 56p

Mashallah!

Maths Superstar





This is to say that

_____

has completed **Adam's Maths – Year 4, Term 3**. Alhamdulillah for all your hard work! May Allah bless your learning.

_____ _____

Signed **Date**



Adam's Maths · Year 4

Adam's handy helpers

Multiplication grid

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Place value chart

Ten thousands	Thousands	Hundreds	Tens	Ones	.	Tenths	Hundredths

Units: 1 m = 100 cm · 1 cm = 10 mm · 1 km = 1,000 m · 1 kg = 1,000 g · 1 l = 1,000 ml

Rabbi zidni ‘ilma — “My Lord, increase me in knowledge.” (Qur’an, Ta-Ha 20:114)