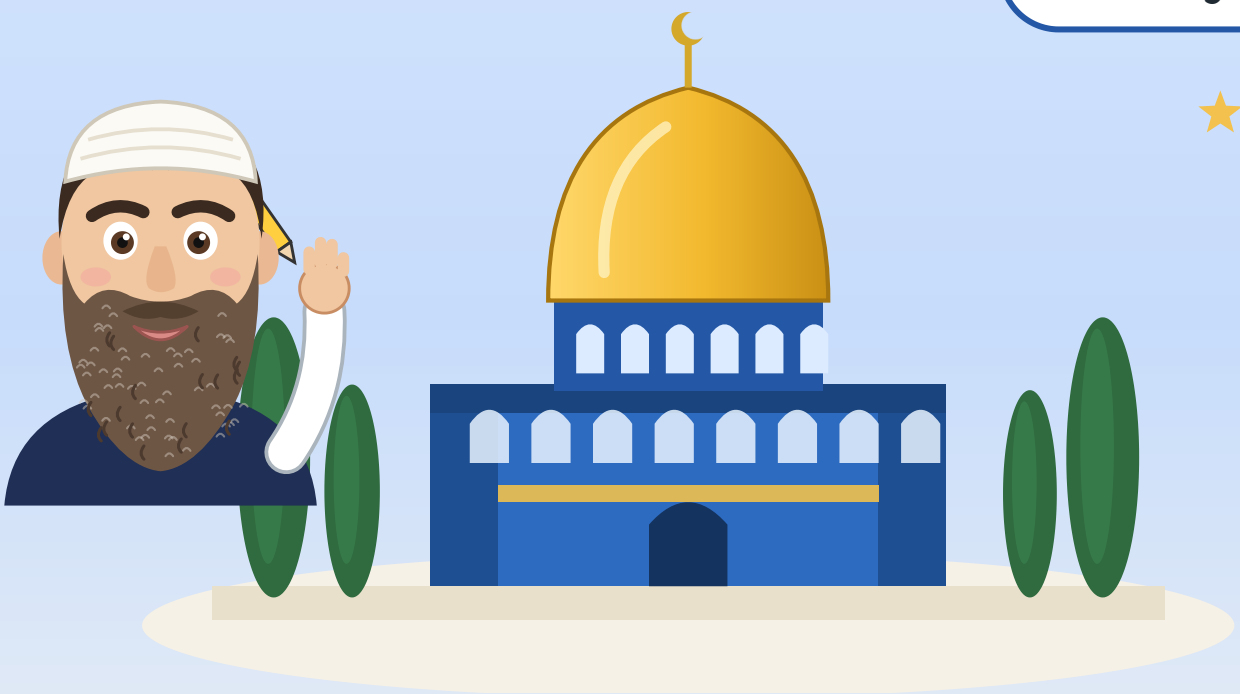
Key Stage 2 · Ages 7–8

# Adam's Maths

*Learning, growing, alhamdulillah*

## Year 3

Term 3 · Masjid al-Aqsa · Practice & Question Book




This book belongs to: _____



# Assalamu alaikum! I'm Adam.

Welcome to your Year 3, 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 | Fractions (part 1) | ☆☆☆ |
| 4 | Fractions (part 2) | ☆☆☆ |
| 5 | Fractions (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 | Angles and shapes (part 1) | ☆☆☆ |
| 13 | Angles and shapes (part 2) | ☆☆☆ |
| 14 | Angles and shapes (part 3) | ☆☆☆ |
| 15 | Mass and capacity (part 1) | ☆☆☆ |
| 16 | Mass and capacity (part 2) | ☆☆☆ |
| 17 | Mass and capacity (part 3) | ☆☆☆ |
| 18 | Charts (part 1) | ☆☆☆ |
| 19 | Charts (part 2) | ☆☆☆ |
| 20 | Charts (part 3) | ☆☆☆ |
| 21 | End-of-term challenge | ☆☆☆ |


**For grown-ups:** This book follows the Year 3 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**.





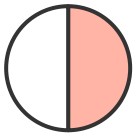
# Fractions Part 1

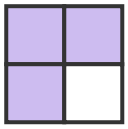
**Adam's tip**
To add fractions with the same denominator, add the numerators.

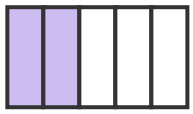
*Believe in Allah and His Messenger and spend out of that in which He has made you successors.* Qur'an 57:7

## A What fraction is shaded?









## B Find the fraction of each amount.

$\frac{1}{3}$ of 9 = ☐ $\frac{1}{5}$ of 10 = ☐ $\frac{1}{4}$ of 24 = ☐

$\frac{1}{5}$ of 35 = ☐ $\frac{1}{5}$ of 45 = ☐ $\frac{2}{4}$ of 36 = ☐

Working out

## C Fill in the missing numbers to make equivalent fractions.

$\frac{1}{3} = \frac{\square}{9}$ $\frac{1}{3} = \frac{\square}{12}$ $\frac{1}{2} = \frac{\square}{4}$

$\frac{3}{5} = \frac{\square}{25}$ $\frac{1}{3} = \frac{5}{\square}$ $\frac{2}{3} = \frac{4}{\square}$

Working out

# Fractions Part 2

**Adam's tip**
To add fractions with the same denominator, add the numerators.

*"He is not a believer whose stomach is filled while his neighbour goes hungry."* **Hadith, al-Adab al-Mufrad**

## A Write <, > or =.

$\frac{3}{5}$ ◯ $\frac{1}{5}$ $\quad$ $\frac{1}{2}$ ◯ $\frac{1}{2}$ $\quad$ $\frac{1}{6}$ ◯ $\frac{1}{4}$

$\frac{1}{2}$ ◯ $\frac{1}{5}$ $\quad$ $\frac{5}{9}$ ◯ $\frac{8}{9}$ $\quad$ $\frac{2}{7}$ ◯ $\frac{3}{7}$

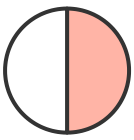
## B Add and subtract.

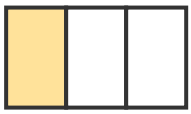
$\frac{1}{4} + \frac{2}{4} =$ ☐ $\quad$ $\frac{3}{4} - \frac{1}{4} =$ ☐ $\quad$ $\frac{2}{4} + \frac{2}{4} =$ ☐

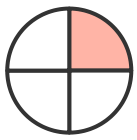
$\frac{4}{6} + \frac{2}{6} =$ ☐ $\quad$ $\frac{3}{5} + \frac{1}{5} =$ ☐ $\quad$ $\frac{11}{12} + \frac{1}{12} =$ ☐

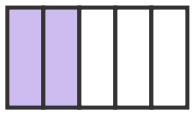
Working out

## C What fraction is shaded?


☐


☐


☐


☐

How did I do? ☆ ☆ ☆

Keep going, insha'Allah!





# Fractions Part 3

**Adam's tip**
To add fractions with the same denominator, add the numerators.

*So as for the orphan, do not oppress him.* — Qur'an 93:9

## A Find the fraction of each amount.

$\frac{1}{5}$ of 20 = ☐ $\frac{1}{2}$ of 4 = ☐ $\frac{3}{5}$ of 15 = ☐

$\frac{1}{3}$ of 6 = ☐ $\frac{2}{10}$ of 90 = ☐ $\frac{1}{2}$ of 14 = ☐

Working out

## B Fill in the missing numbers to make equivalent fractions.

$\frac{1}{3} = \frac{2}{\square}$ $\frac{1}{2} = \frac{\square}{4}$ $\frac{3}{4} = \frac{15}{\square}$

$\frac{1}{2} = \frac{4}{\square}$ $\frac{4}{6} = \frac{\square}{24}$

Working out

## C Write <, > or =.

$\frac{2}{7}$ ◯ $\frac{3}{7}$ $\frac{3}{4}$ ◯ $\frac{1}{4}$ $\frac{1}{2}$ ◯ $\frac{1}{2}$

$\frac{1}{6}$ ◯ $\frac{1}{2}$ $\frac{1}{5}$ ◯ $\frac{1}{4}$ $\frac{1}{4}$ ◯ $\frac{1}{4}$

How did I do? ☆ ☆ ☆

Mashallah, brilliant work!





# Money Part 1

**Adam's tip**
100p = £1.

*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 Pounds and pence.

180p = £ ☐ and ☐ p

£6 and 83p = ☐ p

202p = £ ☐ and ☐ p

£3 and 5p = ☐ p

796p = £ ☐ and ☐ p

308p = £ ☐ and ☐ p

## B Add the amounts.

64p + 17p = ☐

27p + 69p = ☐

68p + 61p = ☐

84p + 22p = ☐

48p + 78p = ☐

79p + 25p = ☐

Working out





# Money Part 2

**Adam's tip**
100p = £1.

*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 How much change?

Cost £1.25, pay £2.00. Change: ☐

Cost 98p, pay £5.00. Change: ☐

Cost 63p, pay £1.00. Change: ☐

Cost £1.31, pay £5.00. Change: ☐

Cost £1.44, pay £5.00. Change: ☐

Cost £3.06, pay £5.00. Change: ☐

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

| kite | story book | plant pot | puzzle |
|---|---|---|---|
| **£3.28** | **£1.36** | **£2.93** | **£4.41** |

kite + story book = ☐

2 × plant pot = ☐

How much more is the puzzle than the kite? ☐





# Money Part 3

**Adam's tip**
100p = £1.

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

## A Money problems.

Alhamdulillah, Safiya was given £20 for Eid. Safiya decided to give a quarter of it to people in need. How much did Safiya give?

working out

Alhamdulillah, Ali was given £12 for Eid. Ali decided to give a quarter of it to people in need. How much did Ali give?

working out

## B Pounds and pence.

701p = £ ☐ and ☐ p

£5 and 84p = ☐ p

£7 and 91p = ☐ p

793p = £ ☐ and ☐ p

848p = £ ☐ and ☐ p

112p = £ ☐ and ☐ p

## C Pounds and pence.

821p = £ ☐ and ☐ p

447p = £ ☐ and ☐ p

876p = £ ☐ and ☐ p

£8 and 26p = ☐ p

392p = £ ☐ and ☐ p

439p = £ ☐ and ☐ p





# Time Part 1

**Adam's tip**
am is before midday; pm is after midday.

*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.





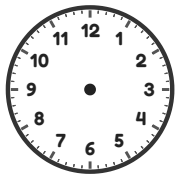

__ : __ __ : __ __ : __ __ : __



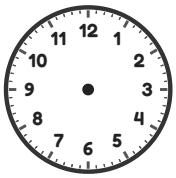



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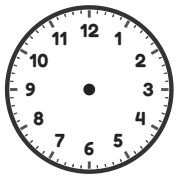
## B Draw the hands on the clocks.



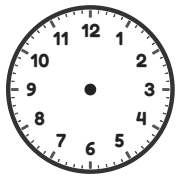
11:23



3:23



11:52



12:52

## C 12-hour and 24-hour clock.

8:40 pm = __ : __

18:55 = ____ am / pm

09:00 = ____ am / pm

23:25 = ____ am / pm

08:00 = ____ am / pm

4:05 pm = __ : __

How did I do? ☆ ☆ ☆

Alhamdulillah, that's excellent!





# Time Part 2

**Adam's tip**
am is before midday; pm is after midday.

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

## A Time facts.

There are ☐ hours in a day.

There are ☐ days in a leap year.

There are ☐ months in a year.

There are ☐ seconds in a minute.

3 weeks = ☐ days

300 seconds = ☐ minutes

6 hours = ☐ minutes

240 seconds = ☐ minutes

## B How long does it last?

Swimming starts at 13:40 and ends at 13:55. It lasts ☐ minutes.

Arabic class starts at 12:40 and ends at 12:55. It lasts ☐ minutes.

Arabic class starts at 16:25 and ends at 17:10. It lasts ☐ minutes.

The Eid fair starts at 16:10 and ends at 16:25. It lasts ☐ minutes.



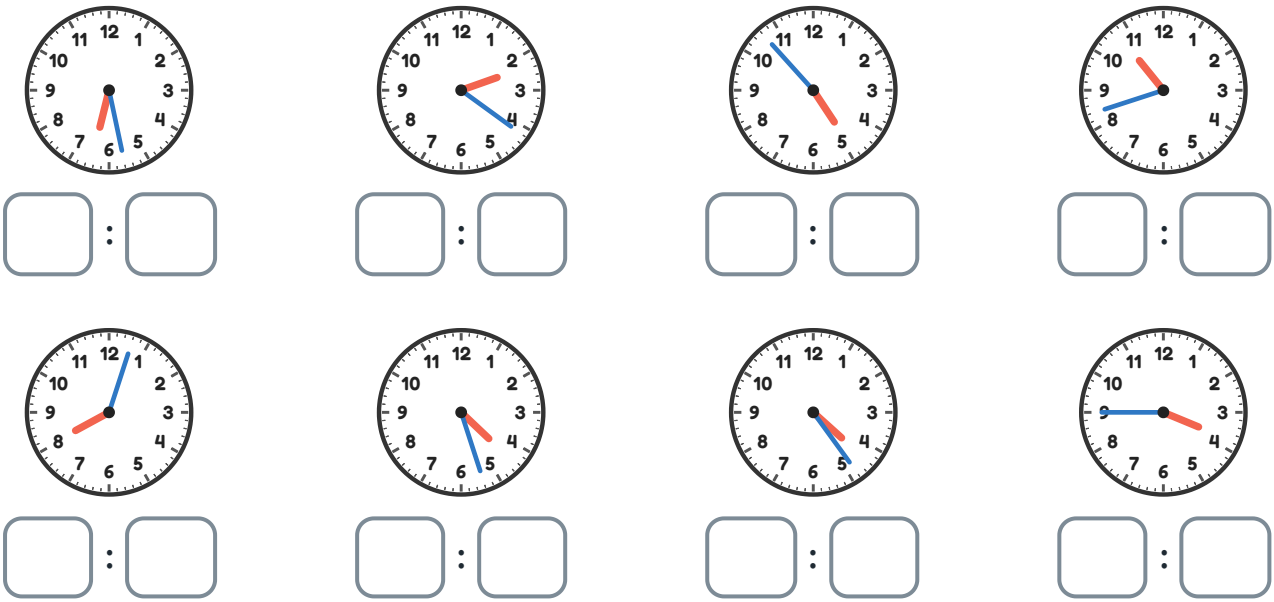


# Time Part 3

**Adam's tip**
am is before midday; pm is after midday.

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

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



## B Draw the hands on the clocks.



12:23 12:23 5:52 7:07

## C 12-hour and 24-hour clock.

11:30 pm = ☐ : ☐

11:25 pm = ☐ : ☐

09:20 = ☐ am / pm

04:00 = ☐ am / pm

05:55 = ☐ am / pm

6:05 am = ☐ : ☐

How did I do? ☆ ☆ ☆

SubhanAllah, look how you're growing!

# Angles and shapes

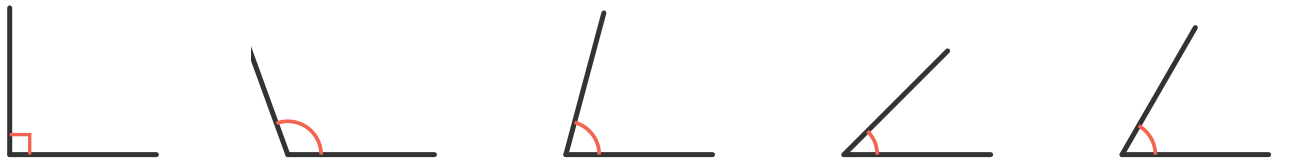
Part 1

**Adam's tip**
A right angle is a square corner, like the corner of a book.

*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:** less than a right angle · right angle · more than a right angle



_____ _____ _____ _____ _____

## B Name each type of line.

**Word bank:** horizontal · vertical · parallel · perpendicular



_____ _____ _____ _____

## C Count the sides and vertices.

| Shape | Sides | Vertices |
|---|---|---|
|  | | |
|  | | |
|  | | |
|  | | |

How did I do? ☆ ☆ ☆

Keep going, insha'Allah!



# Angles and shapes

Part 2

**Adam's tip**
A right angle is a square corner, like the corner of a book.

*"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 Turns.

An arrow points **right**. It makes a quarter turn clockwise. Now it points **up**

right down left

An arrow points **right**. It makes a quarter turn anticlockwise. Now it points **up**

right down left

An arrow points **down**. It makes a half turn. Now it points **up** **right** **down**

left

An arrow points **up**. It makes a quarter turn clockwise. Now it points **up** **right**

down left

## B Name each type of line.

**Word bank:** horizontal · vertical · parallel · perpendicular



_____ _____ _____ _____

How did I do? ☆ ☆ ☆

Mashallah, brilliant work!



# Angles and shapes

Part 3

**Adam's tip**
A right angle is a square corner, like the corner of a book.

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

## A Turns.

An arrow points **up**. It makes a half turn. Now it points **up** **right** **down** **left**

An arrow points **up**. It makes a quarter turn clockwise. Now it points **up** **right** **down** **left**

An arrow points **down**. It makes a quarter turn clockwise. Now it points **up** **right** **down** **left**

An arrow points **down**. It makes a quarter turn anticlockwise. Now it points **up** **right** **down** **left**

## B Count the sides and vertices.

| Shape | Sides | Vertices |
|---|---|---|
|  | | |
|  | | |
|  | | |
|  | | |



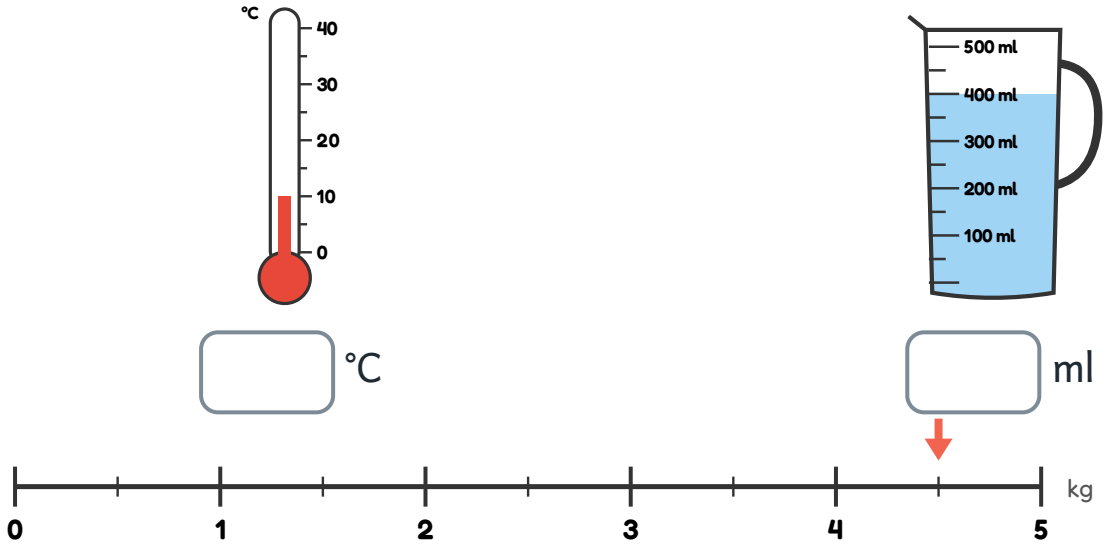
# Mass and capacity

Part 1

**Adam's tip**
1 kg = 1,000 g and 1 litre = 1,000 ml.

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

## A Read the scales.




The parcel weighs ____ kg.

## B Convert the units.

3 m = ____ cm

7 m = ____ cm

5 cm = ____ mm

300 cm = ____ m

8 l = ____ ml

Working out

How did I do? ☆ ☆ ☆

Mashallah, you're a star!



# Mass and capacity

Part 2

**Adam's tip**
1 kg = 1,000 g and 1 litre = 1,000 ml.

*And establish weight in justice and do not make deficient the balance.* — Qur'an 55:9

## A Add and subtract measures.

210 g − 130 g = ☐ g

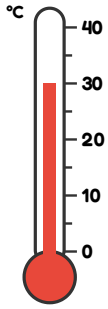
471 g + 384 g = ☐ g

152 g + 400 g = ☐ g

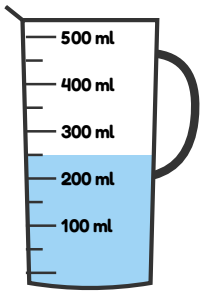
397 cm + 397 cm = ☐ cm

Working out

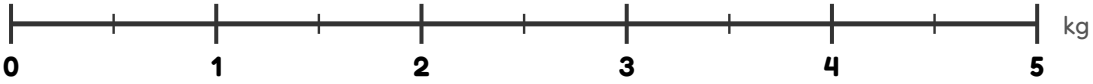
## B Read the scales.




☐ °C




☐ ml




The parcel weighs ☐ kg.





# Mass and capacity

Part 3

**Adam's tip**
1 kg = 1,000 g and 1 litre = 1,000 ml.

*Give full measure and weight in justice.* — Qur'an 6:152

## A Convert the units.

3 l = ☐ ml

7 kg = ☐ g

900 cm = ☐ m

3 m = ☐ cm

700 cm = ☐ m

5,000 ml = ☐ l

Working out

## B Add and subtract measures.

445 g + 312 g = ☐ g

181 ml + 274 ml = ☐ ml

179 m + 336 m = ☐ m

350 ml − 173 ml = ☐ ml

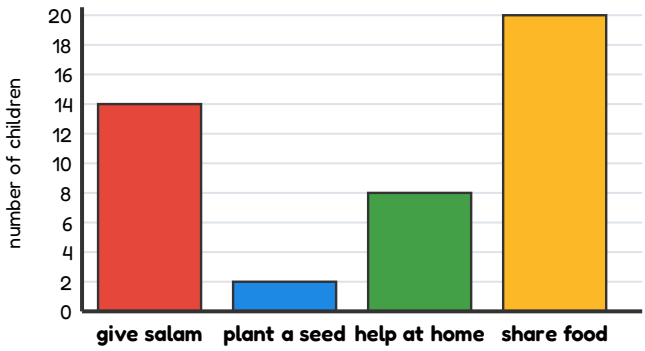
Working out

# Charts Part 1

**Adam's tip**
Check what each line on the scale is worth.

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

## A Read the bar chart.




How many chose give salam? ☐

How many more chose share food than plant a seed? ☐

How many altogether? ☐

## B Read the pictogram.

| | |
|---|---|
| give salam | ●● |
| plant a seed | ●●●●●● |
| help at home | ●●●●●●◗ |
| share food | ●●●●◗ |

Key: ● = 4

How many chose plant a seed? ☐

How many chose help at home? ☐

Which was the most popular?

_____

How many altogether? ☐

# Charts Part 2

**Adam's tip**
Check what each line on the scale is worth.

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

## A Read the tally chart.

| Choice | Tally |
|---|---|
| give salam | 𝍸 𝍸 |
| plant a seed | 𝍸 |
| help at home | 𝍸 |
| share food | 𝍸 |

How many chose give salam? ☐

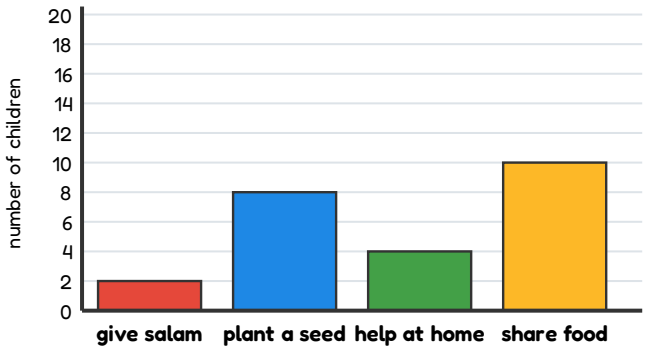
Which was the most popular? _____

How many more chose give salam than plant a seed?

☐

How many altogether? ☐

## B Read the bar chart.




How many chose give salam?

☐

How many more chose share food than give salam?

☐

How many altogether? ☐

# Charts Part 3

**Adam's tip**
Check what each line on the scale is worth.

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

## A Read the pictogram.

| | |
|---|---|
| give salam | ●● |
| plant a seed | ●● |
| help at home | ●●●●●●◗ |
| share food | ●●●●●● |

Key: ● = 10

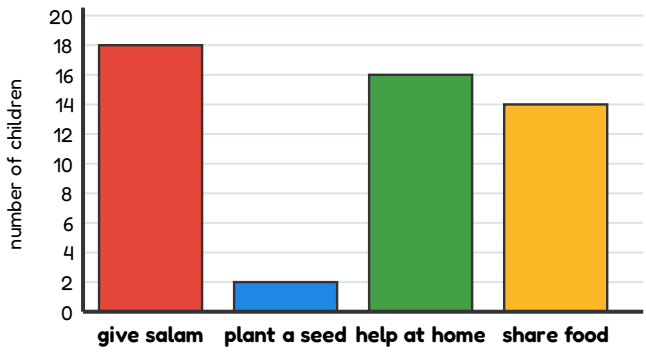
How many chose plant a seed? ☐

How many chose help at home? ☐

Which was the most popular? _____

How many altogether? ☐

## B Read the bar chart.




How many chose give salam? ☐

How many more chose give salam than plant a seed? ☐

How many altogether? ☐





# 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. $\frac{1}{2}$ of 16 = ☐
2. 39p + 33p = ☐
3. 5 hours = ☐ minutes
4. 80 mm = ☐ cm
5. 629 + 2 = ☐
6. 521 − 200 = ☐
7. 90 ÷ 10 = ☐
8. $\frac{1}{2}$ of 16 = ☐
9. 11p + 17p = ☐
10. 120 minutes = ☐ hours
11. 7 m = ☐ cm
12. 166 + 38 = ☐
13. 682 − 14 = ☐
14. 8 × 5 = ☐
15. $\frac{1}{2}$ of 20 = ☐
16. 26p + 30p = ☐
17. 180 minutes = ☐ hours
18. 30 mm = ☐ cm
19. 546 + 90 = ☐
20. 501 − 3 = ☐

How did I do? ☆ ☆ ☆

Mashallah, brilliant work!



For grown-ups

# Answers

**p.3 Fractions (part 1)**

A: 1/3, 1/2, 3/4, 2/5
B: 3, 2, 6, 7, 9, 18
C: 3, 4, 2, 15, 15, 6

**p.4 Fractions (part 2)**

A: >, =, <, >, <, <
B: 3/4, 2/4, 4/4, 6/6, 4/5, 12/12
C: 1/2, 1/3, 1/4, 2/5

**p.5 Fractions (part 3)**

A: 4, 2, 9, 2, 18, 7
B: 6, 2, 20, 8, 16
C: <, >, =, <, <, =

**p.6 Money (part 1)**

A: £1 and 80p, 683, £2 and 2p, 305, £7 and 96p, £3 and 8p
B: 81p, 96p, £1.29, £1.06, £1.26, £1.04

**p.7 Money (part 2)**

A: 75p, £4.02, 37p, £3.69, £3.56, £1.94
B: £4.64, £5.86, £1.13

**p.8 Money (part 3)**

A: £5, £3
B: £7 and 1p, £7 and 93p, 584, £8 and 48p, 791, £1 and 12p
C: £8 and 21p, 826, £4 and 47p, £3 and 92p, £8 and 76p, £4 and 39p

**p.9 Time (part 1)**

A: 2:19; 8:25; 9:38; 5:47; 1:18; 10:32; 3:34; 3:00
B: 11:23; 3:23; 11:52; 12:52 (check the hands)
C: 20:40, 6:55 pm, 9:00 am, 11:25 pm, 8:00 am, 16:05

**p.10 Time (part 2)**

A: 24, 366, 12, 60, 21, 5, 360, 4
B: 15, 15, 45, 15

**p.11 Time (part 3)**

A: 6:28; 2:21; 4:53; 10:42; 8:03; 4:27; 4:24; 3:45
B: 12:23; 12:23; 5:52; 7:07 (check the hands)
C: 23:30, 23:25, 9:20 am, 4:00 am, 5:55 am, 06:05

**p.12 Angles and shapes (part 1)**

A: right angle, more than a right angle, less than a right angle, less than a right angle, less than a right angle
B: parallel, perpendicular, vertical, horizontal
C: hexagon 6, 6; pentagon 5, 5; octagon 8, 8; rectangle 4, 4

**p.13 Angles and shapes (part 2)**

A: down, up, up, right
B: perpendicular, parallel, horizontal, vertical



For grown-ups

# Answers (continued)

**p.14 Angles and shapes (part 3)**

A: down, right, left, right

B: hexagon 6, 6; octagon 8, 8; pentagon 5, 5; square 4, 4

**p.15 Mass and capacity (part 1)**

A: 10 °C, 400 ml, 4.5 kg

B: 300, 700, 50, 3, 8,000

**p.16 Mass and capacity (part 2)**

A: 80, 855, 552, 794

B: 30 °C, 250 ml, 4.5 kg

**p.17 Mass and capacity (part 3)**

A: 3,000, 7,000, 9, 300, 7, 5

B: 757, 455, 515, 177

**p.18 Charts (part 1)**

A: 14, 18, 44

B: 24, 26, help at home, 76

**p.19 Charts (part 2)**

A: 10, give salam, 8, 17

B: 2, 8, 24

**p.20 Charts (part 3)**

A: 20, 65, help at home, 165

B: 18, 16, 50

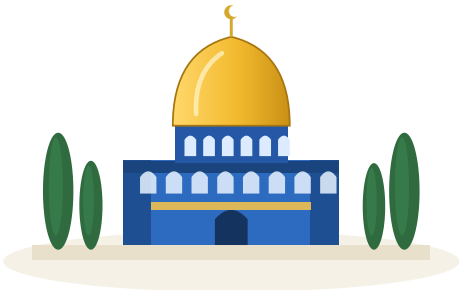
**p.21 End-of-term challenge**

1) 8, 2) 72p, 3) 300, 4) 8, 5) 631, 6) 321, 7) 9, 8) 8, 9) 28p, 10) 2, 11) 700, 12) 204, 13) 668, 14) 40, 15) 10, 16) 56p, 17) 3, 18) 3, 19) 636, 20) 498

Mashallah!

# Maths Superstar





This is to say that

_____

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

_____ _____

**Signed** **Date**



Adam's Maths · Year 3

# 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)