

Key Stage 2 · Ages 7–8

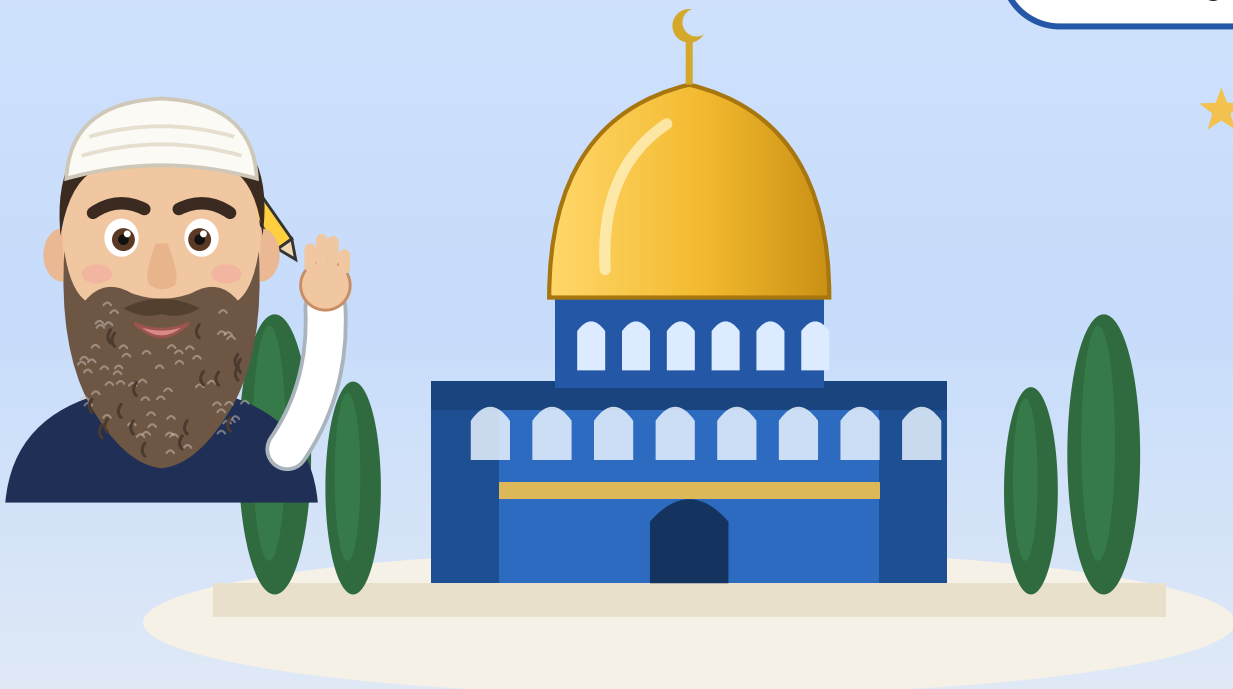
Adam's Maths

Learning, growing, alhamdulillah

Year 3

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

Bismillah! Let's
learn together!



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)	☆☆☆

Page	Topic	Stars
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.



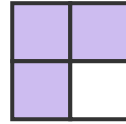
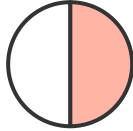
Adam's tip

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.

$$\frac{1}{3} \text{ of } 9 = \boxed{}$$

$$\frac{1}{5} \text{ of } 10 = \boxed{}$$

$$\frac{1}{4} \text{ of } 24 = \boxed{}$$

$$\frac{1}{5} \text{ of } 35 = \boxed{}$$

$$\frac{1}{5} \text{ of } 45 = \boxed{}$$

$$\frac{2}{4} \text{ of } 36 = \boxed{}$$

Working out

C Fill in the missing numbers to make equivalent fractions.

$$\frac{1}{3} = \frac{\boxed{}}{9}$$

$$\frac{1}{3} = \frac{\boxed{}}{12}$$

$$\frac{1}{2} = \frac{\boxed{}}{4}$$

$$\frac{3}{5} = \frac{\boxed{}}{25}$$

$$\frac{1}{3} = \frac{5}{\boxed{}}$$

$$\frac{2}{3} = \frac{4}{\boxed{}}$$

Working out



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 $=$.

$$\frac{3}{5} \bigcirc \frac{1}{5}$$

$$\frac{1}{2} \bigcirc \frac{1}{2}$$

$$\frac{1}{6} \bigcirc \frac{1}{4}$$

$$\frac{1}{2} \bigcirc \frac{1}{5}$$

$$\frac{5}{9} \bigcirc \frac{8}{9}$$

$$\frac{2}{7} \bigcirc \frac{3}{7}$$

B Add and subtract.

$$\frac{1}{4} + \frac{2}{4} = \boxed{}$$

$$\frac{3}{4} - \frac{1}{4} = \boxed{}$$

$$\frac{2}{4} + \frac{2}{4} = \boxed{}$$

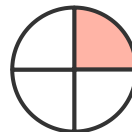
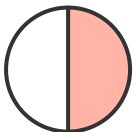
$$\frac{4}{6} + \frac{2}{6} = \boxed{}$$

$$\frac{3}{5} + \frac{1}{5} = \boxed{}$$

$$\frac{11}{12} + \frac{1}{12} = \boxed{}$$

Working out

C What fraction is shaded?





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.

$$\frac{1}{5} \text{ of } 20 = \boxed{}$$

$$\frac{1}{2} \text{ of } 4 = \boxed{}$$

$$\frac{3}{5} \text{ of } 15 = \boxed{}$$

$$\frac{1}{3} \text{ of } 6 = \boxed{}$$

$$\frac{2}{10} \text{ of } 90 = \boxed{}$$

$$\frac{1}{2} \text{ of } 14 = \boxed{}$$

Working out

B Fill in the missing numbers to make equivalent fractions.

$$\frac{1}{3} = \frac{2}{\boxed{}}$$

$$\frac{1}{2} = \frac{\boxed{}}{4}$$

$$\frac{3}{4} = \frac{15}{\boxed{}}$$

$$\frac{1}{2} = \frac{4}{\boxed{}}$$

$$\frac{4}{6} = \frac{\boxed{}}{24}$$

Working out

C Write $<$, $>$ or $=$.

$$\frac{2}{7} \bigcirc \frac{3}{7}$$

$$\frac{3}{4} \bigcirc \frac{1}{4}$$

$$\frac{1}{2} \bigcirc \frac{1}{2}$$

$$\frac{1}{6} \bigcirc \frac{1}{2}$$

$$\frac{1}{5} \bigcirc \frac{1}{4}$$

$$\frac{1}{4} \bigcirc \frac{1}{4}$$



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.

$$180\text{p} = \text{£ } \boxed{} \text{ and } \boxed{} \text{ p}$$

$$\text{£}6 \text{ and } 83\text{p} = \boxed{} \text{ p}$$

$$202\text{p} = \text{£ } \boxed{} \text{ and } \boxed{} \text{ p}$$

$$\text{£}3 \text{ and } 5\text{p} = \boxed{} \text{ p}$$

$$796\text{p} = \text{£ } \boxed{} \text{ and } \boxed{} \text{ p}$$

$$308\text{p} = \text{£ } \boxed{} \text{ and } \boxed{} \text{ p}$$

B Add the amounts.

$$64\text{p} + 17\text{p} = \boxed{}$$

$$27\text{p} + 69\text{p} = \boxed{}$$

$$68\text{p} + 61\text{p} = \boxed{}$$

$$84\text{p} + 22\text{p} = \boxed{}$$

$$48\text{p} + 78\text{p} = \boxed{}$$

$$79\text{p} + 25\text{p} = \boxed{}$$

Working out



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

£3.28



story book

£1.36



plant pot

£2.93



puzzle

£4.41

kite + story book =

2 × plant pot =

How much more is the puzzle than the kite?



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

793p = £ and p

£5 and 84p = p

848p = £ and p

£7 and 91p = p

112p = £ and p

C Pounds and pence.

821p = £ and p

£8 and 26p = p

447p = £ and p

392p = £ and p

876p = £ and p

439p = £ and p



Adam's tip

am is before midday; pm is after midday.

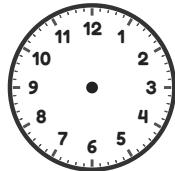
Indeed, prayer has been decreed upon the believers at specified times.

Qur'an 4:103

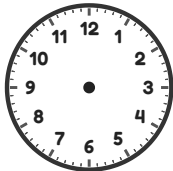
A What time does each clock show? Write it as a digital time.

 :  :  :  :  :  :  :  :

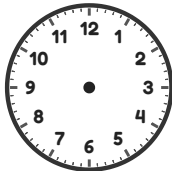
B Draw the hands on the clocks.



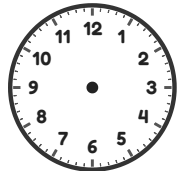
11:23



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 = :



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.

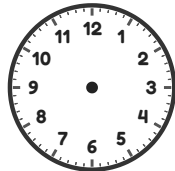
The Eid fair starts at 16:10 and ends at 16:25. It lasts minutes.

**Adam's tip**

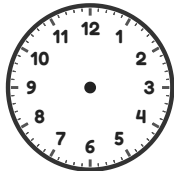
am is before midday; pm is after midday.

Your Lord has decreed that you worship none but Him, and that you be good to your parents.

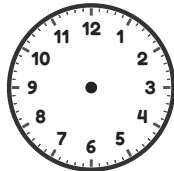
Qur'an 17:23

A What time does each clock show? Write it as a digital time. :  :  :  :  :  :  :  : **B** Draw the hands on the clocks.

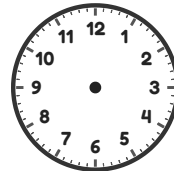
12:23



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 = :



Angles and shapes

Part 1

Adam's tip

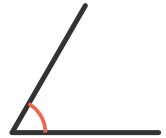
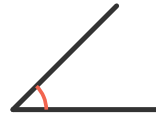
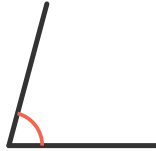
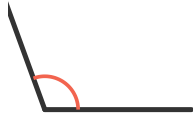
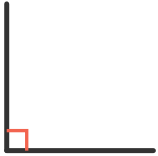
A right angle is a square corner, like the corner of a book.

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
		
		
		
		



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





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

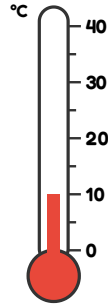
Adam's tip

1 kg = 1,000 g and 1 litre = 1,000 ml.

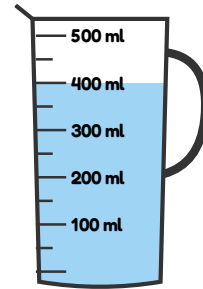
Indeed, I will make upon the earth a successive authority (khalifah).

Qur'an 2:30

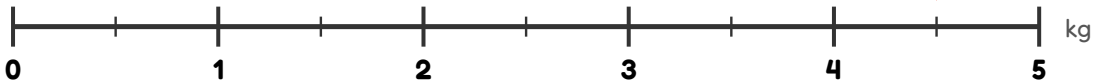
A Read the scales.



°C



ml



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



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.

$$210 \text{ g} - 130 \text{ g} = \boxed{} \text{ g}$$

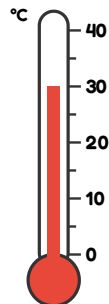
$$471 \text{ g} + 384 \text{ g} = \boxed{} \text{ g}$$

$$152 \text{ g} + 400 \text{ g} = \boxed{} \text{ g}$$

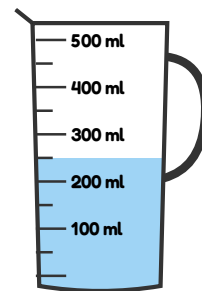
$$397 \text{ cm} + 397 \text{ cm} = \boxed{} \text{ cm}$$

Working out

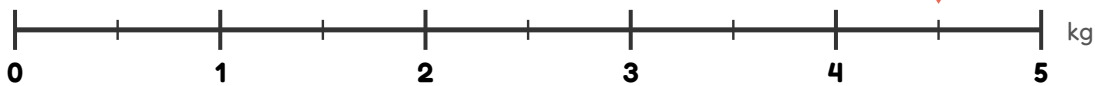
B Read the scales.



°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.

$$3 \text{ l} = \boxed{} \text{ ml}$$

$$7 \text{ kg} = \boxed{} \text{ g}$$

$$900 \text{ cm} = \boxed{} \text{ m}$$

$$3 \text{ m} = \boxed{} \text{ cm}$$

$$700 \text{ cm} = \boxed{} \text{ m}$$

$$5,000 \text{ ml} = \boxed{} \text{ l}$$

Working out

B Add and subtract measures.

$$445 \text{ g} + 312 \text{ g} = \boxed{} \text{ g}$$

$$181 \text{ ml} + 274 \text{ ml} = \boxed{} \text{ ml}$$

$$179 \text{ m} + 336 \text{ m} = \boxed{} \text{ m}$$

$$350 \text{ ml} - 173 \text{ ml} = \boxed{} \text{ ml}$$

Working out



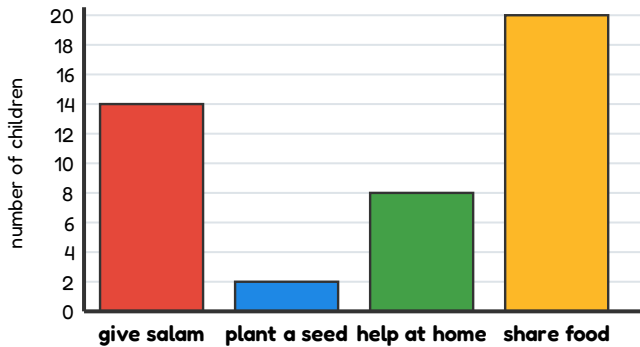
Adam's tip

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.



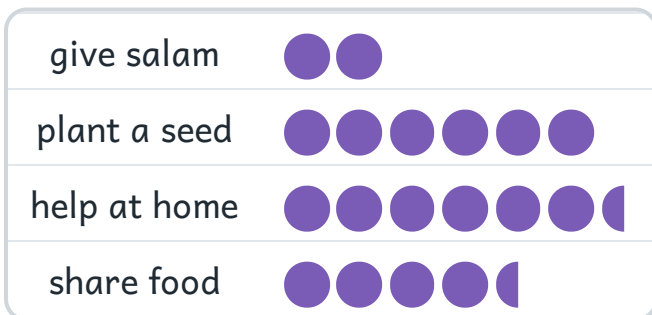
How many chose give salam?

How many more chose share food than plant a seed?

How many altogether?

B Read the pictogram.

Key: ● = 4



How many chose plant a seed?

How many chose help at home?

Which was the most popular?

How many altogether?



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	
plant a seed	
help at home	
share food	

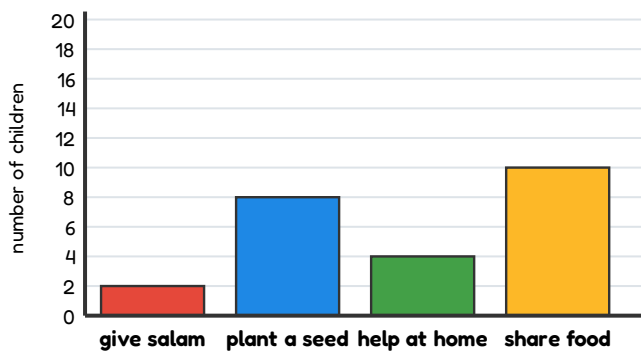
How many chose give salam?

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?



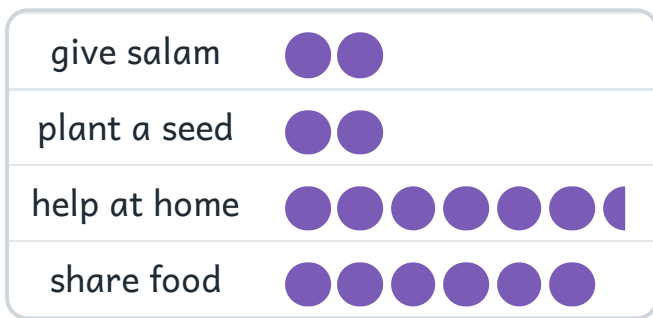
Adam's tip

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.



Key: ● = 10

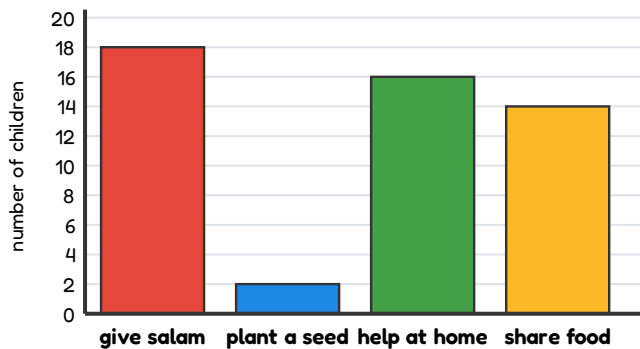
How many chose plant a seed?

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 $90 \div 10 =$

8 $\frac{1}{2}$ of 16 =

9 $11p + 17p =$

10 120 minutes = hours

11 7 m = cm

12 $166 + 38 =$

13 $682 - 14 =$

14 $8 \times 5 =$

15 $\frac{1}{2}$ of 20 =

16 $26p + 30p =$

17 180 minutes = hours

18 30 mm = cm

19 $546 + 90 =$

20 $501 - 3 =$



For grown-ups

Answers

p.3 Fractions (part 1)

A: $\frac{1}{3}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{2}{5}$

B: 3, 2, 6, 7, 9, 18

C: 3, 4, 2, 15, 15, 6

p.4 Fractions (part 2)

A: $>$, $=$, $<$, $>$, $<$, $<$

B: $\frac{3}{4}$, $\frac{2}{4}$, $\frac{4}{4}$, $\frac{6}{6}$, $\frac{4}{5}$, $\frac{12}{12}$

C: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{5}$

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

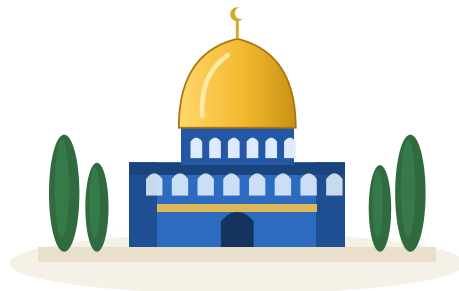
B: 18, 16, 50

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)