

Week 7 Maths Answers

Day 1 – Lesson 9 – Timetables

Starter – answer on smartboard

Discover

ANSWERS

Question 1 a): Emma arrives at school at 08:05 (five minutes past 8).

Question 1 b): Bus C arrives at school at 08:35.

Think Together / Challenge (3)

ANSWERS

Question 1 a): Lexi arrives in Ashtown Central at 15:50.

Question 1 b): It takes 24 minutes to get to Birchfield.

Question 2: It takes 32 minutes to get from Birchfield to Ashtown Parkway.

Question 3: The express train is 20 minutes quicker.

Textbook

- a) There are 8 rows in the timetable. Each row shows a different stop.
There are 6 columns. Each column shows a different coach.
The times in the timetable are 24-hour times.
b) It arrives at 08:45.
c) It left at 12:50.
d) At 14:15 Coach D arrives at Luton Airport. Its next stop is Hertford North Station. It takes 45 minutes to get there and it arrives at 15:00.
- a) She is on the train for 40 minutes.
b) He will wait 1 hour and 54 minutes.

c)

Grantham	13:15
Rauceby	–
Sleaford	13:41
Boston	14:09
Thorpe Culvert	14:31
Wainfleet	14:35
Havenhouse	14:39
Skegness	14:49

3.

	Bus 1	Bus 2
Hall Lane	07:40	14:48
Chapman Avenue	07:53	15:01
Wildshed Road	08:01	15:09
Station Road	08:10	15:18
Moorfield Academy	08:27	15:35

Reflect

Answers will vary but should include the fact that using 24-hour times makes it very clear if the time is in the morning or afternoon, which may be useful to avoid arriving at the wrong time.

Day 2 – Lesson 10 – Problem Solving - Measure

Starter – answer on smartboard

Discover

ANSWERS

Question 1 a): Reena needs to convert ounces → grams:
56 g oats, 112 g brown sugar, 112 g butter,
140 g flour

Question 1 b): 5 cooking apples, 70 g oats, 140 g brown
sugar, 140 g butter, 175 g plain flour

Think Together

Question 1 a): Jamie needs to open 4 cartons of milk.

Question 1 b): Jamie will have 280 ml left over.

Question 2: The latest time Danny should start preparing
is 15:50 (ten minutes to 4).

Challenge

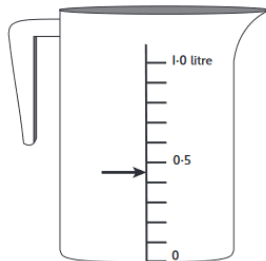
Question 3: A: 1.4 kg = 1,400 g, B: 10 oz = 280 g, C: 1,250 g,
D: 2 lb = 900 g
Bag A is the best value.

Textbook

1. 2.7 kg is 2,700 grams.

2. The frog has jumped 1.35 metres.

3.



4. They have 160 grams each.

5. £1.50 = 90 cm

10 cm costs £0.16

100 cm = 1 m = £1.67

Shop A is cheaper

6. 2.8 kg = 2,800

2,800 g – 800 g = 2,000 g

2,000 g ÷ 5 = 400 g

One football has a mass of 400 g.

7. 1.25 m = 125 cm

125 cm – 80 cm = 45 cm

45 cm ÷ 3 = 15 cm

The length of each space is 15 cm (or 0.15 m).

Reflect

Explanations may vary; for example:

1 m = 100 cm

2.5 cm = 1 inch

100 ÷ 2.5 = 40

So, she needs to measure 40 inches of string.

Day 3 – End of Unit Check

Q	A	WRONG ANSWERS AND MISCONCEPTIONS	STRENGTHENING UNDERSTANDING
1	C	D shows that the child has divided instead of multiplying.	Play matching pairs games using flashcards where children are given measures expressed in different units (for example, 4.5 litres) and must find their matching partner (for example, 4,500 ml). Provide opportunities to measure simple lengths, masses and capacities using different units. Where possible, provide equipment that shows different units on the scale.
2	C	Not choosing C suggests that the child is unsure of the correct operation required to convert $g \leftrightarrow kg$.	
3	D	A and C suggest that the child has an incorrect understanding of how to convert a time into minutes.	
4	A	B and C suggest that the child has not converted all the measurements into the same unit.	
5	B	C suggests an incorrect identification of 09:55.	
6	D	A suggests an incorrect understanding of the equivalence between inches and cm (using $1\text{ cm} = 2.5\text{ inches}$).	
7	$4\frac{1}{2}\text{ min}$, 300 s , 5 min 10 s , $\frac{1}{4}\text{ hr}$	Some children may assume that 300 seconds is the longest duration because it involves the highest number and that $\frac{1}{4}$ hour is the smallest because it is the only one less than 1.	

My journal

1. a) $1.2\text{ litres} = 1,200\text{ millilitres}$
 I know this because there are 1,000 ml in 1 l.
 To convert, multiply by 1,000.
- b) $490\text{ minutes} = 8\text{ hours } 10\text{ minutes}$
 I know this because there are 60 minutes in 1 hour.
 To convert divide by 60 and write the remainder as minutes.
- c) $60\text{ inches} = 1.5\text{ metres}$
 There are 2.5 cm in 1 inch and 100 cm in 1 m.
 To convert inches to centimetres multiply by 2.5 and then to convert cm to m divide by 100.

Day 4 – Mental Maths Answers

1. 63
2. 6300
3. 638
4. 432
5. 476
6. 108
7. 61
8. 22
9. 240
10. 22
11. 19.2
12. 18.6
13. 75.1
14. 25.8

- 15. -2.5
- 16. -5.1
- 17. 11,232
- 18. 20,046
- 19. 619
- 20. 242

SUPER FOOTBALL CHALLENGE

Answers on smartboard

Black – info given in question

Green – reasonably easy to work out

Red – gotta do the green steps first.

Football players are marked by these criteria;

1 point for a goal

0.6 points for an assist

0.2 points for a key pass

At the end of the season, Kevin De Bruyne racks up 35 points. He scored 15 goals.

Paul Pogba has 31 points, getting 10 assists.

Sadio Mane has 37 points, scoring 20 goals, and assisting 1.5 x Pogba's tally.

Make a table to help you answer the questions...

- 1. Kevin De Bruyne made the same number of key passes as Mane.
How many assists did he get?**
- 2. Pogba scored the same amount of goals as KDB.
How many key passes did he make?**
- 3. Jamie Vardy got 5 assists, made 20 key passes, and finished with 32 points.
How many goals did he score?**