

**AcumenTeach**

Precision. Practice. Progress

11+ MATHEMATICS

Word Problems Worksheet

Free practice · 10 questions · Answers and worked solutions included

Name	
Date	
Score	/ 10

Instructions

1. Choose one answer, A, B, C or D, for each question.
2. Show your working on the lines under each question.
3. No calculator. Take your time: this is practice, not a timed test.
4. Check your answers with the worked solutions at the back.

Question 1

A cinema has 24 rows with 35 seats in each row. 168 seats are empty. How many seats are taken?

A 662**B** 672**C** 682**D** 708**Question 2**

Jo buys 3 books at £4.75 each and a pen for £1.80. How much change does she get from £20?

A £3.95**B** £4.05**C** £4.95**D** £3.85**Question 3**

A bus leaves at 07:50 and then every 18 minutes. When does the 4th bus leave?

A 08:44**B** 09:02**C** 08:26**D** 08:54

Question 4

250 eggs are packed into boxes of 6. How many full boxes are there?

A 40**B** 41**C** 42**D** 44**Question 5**

Sam is 3 times as old as his sister. Their ages add up to 32. How old is Sam?

A 8**B** 16**C** 24**D** 28**Question 6**

Cinema tickets cost £7.50 for an adult and £4.25 for a child. What do 2 adults and 3 children pay?

A £27.75**B** £28.25**C** £23.50**D** £31.00

Question 7

Lily reads 18 pages a day. Her book has 290 pages. How many days does she need to finish it?

A 15**B** 16**C** 17**D** 18**Question 8**

A jug holds 2.5 litres of water. 350 ml is poured out three times. How much water is left?

A 1,150 ml**B** 1,450 ml**C** 1,550 ml**D** 2,150 ml**Question 9**

I think of a number, add 7, then multiply by 3. The answer is 54. What was my number?

A 11**B** 13**C** 15**D** 17

Question 10

Amir has £18 and saves £2.50 a week. How many weeks until he can buy a £55 bike?

A 14**B** 15**C** 16**D** 22

Answers and Worked Solutions

For parents and tutors. Award 1 mark for each correct answer.

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	B	2	A	3	A	4	B	5	C
6	A	7	C	8	B	9	A	10	B

Diagram colour key

- Given in the question
 Worked out
 Groups and matching parts
 Final answer

Question 1

Core

A cinema has 24 rows with 35 seats in each row. 168 seats are empty. How many seats are taken?

A 662 B 672 C 682 D 708

Step	What to do	Working
1	Total seats	$24 \times 35 = 840$
2	Subtract the empty seats	$840 - 168 = 672$
✓	Answer	B = 672

Watch out: A borrowing slip in $840 - 168$.

Question 2

Stretch

Jo buys 3 books at £4.75 each and a pen for £1.80. How much change does she get from £20?

A £3.95 B £4.05 C £4.95 D £3.85

Step	What to do	Working
1	Cost of the books	$3 \times £4.75 = £14.25$
2	Add the pen	$£14.25 + £1.80 = £16.05$
3	Change from £20	$£20 - £16.05 = £3.95$
✓	Answer	A = £3.95

Watch out: Forgetting the pen, or a slip with the pence.

Question 3**Stretch**

A bus leaves at 07:50 and then every 18 minutes. When does the 4th bus leave?

A 08:44 B 09:02 C 08:26 D 08:54

Step	What to do	Working
1	Count the gaps before the 4th bus	3 gaps
2	Total time	$3 \times 18 = 54$ minutes
3	Add to 07:50	$07:50 + 54 \text{ min} = 08:44$
✓	Answer	A = 08:44

Watch out: Adding 4 gaps instead of 3 (09:02).

Question 4**Core**

250 eggs are packed into boxes of 6. How many full boxes are there?

A 40 B 41 C 42 D 44

Step	What to do	Working
1	Divide	$250 \div 6 = 41$ remainder 4
2	Count only full boxes	41
✓	Answer	B = 41

Watch out: Rounding up to 42 because of the remainder.

Question 5**Stretch**

Sam is 3 times as old as his sister. Their ages add up to 32. How old is Sam?

A 8 B 16 C 24 D 28

Step	What to do	Working
1	Sister = 1 part, Sam = 3 parts	4 parts = 32
2	One part	$32 \div 4 = 8$
3	Sam's age	$3 \times 8 = 24$
✓	Answer	C = 24

Watch out: Giving the sister's age (8).

Question 6**Core**

Cinema tickets cost £7.50 for an adult and £4.25 for a child. What do 2 adults and 3 children pay?

A £27.75 B £28.25 C £23.50 D £31.00

Step	What to do	Working
1	Adults	$2 \times £7.50 = £15.00$
2	Children	$3 \times £4.25 = £12.75$
3	Total	$£15.00 + £12.75 = £27.75$
✓	Answer	A = £27.75

Watch out: Mixing up the numbers of adults and children.

Question 7**Challenge**

Lily reads 18 pages a day. Her book has 290 pages. How many days does she need to finish it?

A 15 B 16 C 17 D 18

Step	What to do	Working
1	Divide	$290 \div 18 = 16 \text{ remainder } 2$
2	The last 2 pages need another day	$16 + 1 = 17 \text{ days}$
✓	Answer	C = 17

Watch out: Ignoring the remainder (16). Here you must round up.

Question 8**Stretch**

A jug holds 2.5 litres of water. 350 ml is poured out three times. How much water is left?

A 1,150 ml B 1,450 ml C 1,550 ml D 2,150 ml

Step	What to do	Working
1	Change litres to millilitres	$2.5 \text{ l} = 2,500 \text{ ml}$
2	Total poured out	$3 \times 350 = 1,050 \text{ ml}$
3	Subtract	$2,500 - 1,050 = 1,450 \text{ ml}$
✓	Answer	B = 1,450 ml

Watch out: Subtracting 350 ml only once (2,150 ml).

Question 9**Stretch**

I think of a number, add 7, then multiply by 3. The answer is 54. What was my number?

A 11 B 13 C 15 D 17

Step	What to do	Working
1	Undo $\times 3$	$54 \div 3 = 18$
2	Undo $+ 7$	$18 - 7 = 11$
✓	Answer	A = 11

Watch out: Undoing in the wrong order: $54 - 7$ first.

Question 10**Challenge**

Amir has £18 and saves £2.50 a week. How many weeks until he can buy a £55 bike?

A 14 B 15 C 16 D 22

Step	What to do	Working
1	How much more he needs	$£55 - £18 = £37$
2	Weeks of saving	$£37 \div £2.50 = 14.8$
3	Round up to whole weeks	15 weeks
✓	Answer	B = 15

Watch out: Dividing the full £55 by £2.50 (22) and forgetting the £18 he has.

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