

All Kinds of Word Problems

The Four Operations
10 Questions, Answers and a
Challenge

Year 5



THIRD SPACE
LEARNING

Year 5 Problems on the Four Operations

Name.....

Date.....Class

School



Please write your answer on the answer line provided. You can use the space provided below the question for working out if you need it.

1

248 passengers were on a plane journey.

34 had the chicken dinner.

75 had the beef dinner.

45 had the vegetarian dinner.

How many of the passengers didn't have a meal?



Answer

2

David has £25 in his bank account which he has been given for his birthday. He buys 4 items.

Item 1 costs £2.75

Item 2 costs £3.54

Item 3 costs £1.20

Item 4 costs £6.33

a How much has David spent altogether?

b How much more money would David need to buy a new book costing £11.99?



Answer a £.....

Answer b

3

Anna wants to buy a new games console at the cost of £249.99. She gets £7.50 a week pocket money and already has £15.49 in her piggy bank. How long will it take her to save up for the new games console?



Answer

- 4 The whole school (Reception to Year 6) are going on a trip to the safari park. The number of adults that must be with them on the trip depends on the age of the children.

Reception:	1 adult with every 5 children
Year 1 and 2:	1 adult with every 8 children
Years 3, 4, 5 and 6:	1 adult with every 10 children

There are 120 children in each year group.
How many adults will be needed in total?



Answer

- 5 Jon buys a toy for each of his 3 friends.
Each one is 50% more expensive than the last.
If the first present he brought was £9.00, how much does he spend in total?



Answer £.....

6

A baker needs to bake 1330 cupcakes for a festival.
Each tray holds 30 cupcakes.

How many trays will the baker need?



Answer

7

At school four types of drinks are served along with a lunch.
1432 drinks are served.

$\frac{1}{4}$ of drinks are orange juice.

$\frac{1}{8}$ of drinks are apple juice.

$\frac{1}{2}$ of drinks are water.

How many drinks are blackcurrant juice?



Answer

8

A new TV show is filming 2 shows per day for 8 days.
5000 people applied for tickets.
Each show allows 274 people to watch it in the audience.

How many people did not manage to get a ticket for any of the shows?



Answer

9

Tamika decides to have a patio in her garden.

Each paving slab she buys measures 3 m x 3 m.

a How many paving slabs does she need altogether if the perimeter is 6 m by 12 m?

b How many paving slabs does she need altogether if the side lengths are 18 m x 21 m?

Answer a

Answer b

Answer c

- 10 A marathon runner is training for the London Marathon in April. He starts training in September by running 5 miles per day for the month. He increases the distance he runs by 2.5 miles each month.

How many miles will he have run altogether by the end of March?



Answermiles

Challenge Question!



Some special sunflower seeds grow into sunflowers with either 34, 55 or 89 petals per flower.

Yen plants 15 sunflowers from a packet of seeds which grow sunflowers with 34 petals. There are 25 seeds left in the packet.

She plants 22 sunflowers from a packet of seeds which grow sunflowers with 55 petals. There are 40 seeds left.

She plants 6 sunflowers from a packet of seeds which grow sunflowers with 89 petals. There are 30 seeds left.

- a How many petals will she have altogether from the seeds she planted?
- b How many petals would the seeds she didn't plant have made?



Answer a

Answer b

Answer Sheet

- 1 94 did not have a meal.

Content Domain: Adding and subtracting whole numbers (5C4)

- 2 a. £13.82
b. No

Content Domain: Adding decimals with money (5M9a)

- 3 32 weeks.

Content Domains: Dividing and multiplying using decimals (5M9a, 5C6a, 5C6b, 5C7b)

- 4 102 adults.

Content Domain: Division, Addition of whole numbers (5C8b)

- 5 $£9 + £13.50 + £20.25 = £42.75$

Content Domains: Multiplication and division using decimals, Percentages, Rounding (5C8b, 5F7, 5F11)

- 6 45 trays.

Content Domain: Using Division, Rounding remainders (5C7b)

- 7 179 blackcurrant drinks are served.

Content Domain: Multiplication and division (5C8b)

- 8 616 people.

Content Domains: Multi-step problems with four operations (5C7a, 5C4)

- 9 a. 12 paving slabs.
b. $378 \text{ square metres} \div 9 \text{ square metres} = 42 \text{ paving slabs.}$

