All Kinds of Word Problems

The Four Operations 10 Questions, Answers and a Challenge

Year 5



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 your line. below the question for working out if you need it.



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?



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

Anna wants to buy a new games console at the cost of £249.99.

How long will it take her to save up for the new games console?

She gets £7.50 a week pocket money and already has £15.49 in her piggy bank.

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	
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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?





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

How many trays will the baker need?



Answer



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?



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?



-			
y paving slabs does s	he need altoget	her if the perimete	r is 6 m by 12 m?
y paving slabs does s	she need altoget	ther if the side leng	ths are 18 m x 21
9	g slab she buys meas y paving slabs does s	,, ,	·



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?



Anguar	miles
Answer	IIIIES

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	h	

Answer Sheet

94 did not have a meal.

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

a. £13.82 b. No

Content Domain: Adding decimals with money (5M9a)

32 weeks.

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

4 102 adults.

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

f9 + £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)

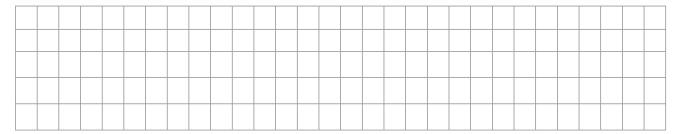
616 people.

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

- a. 12 paving slabs.
 - b. 378 square metres divided by 9 square metres = 42 paving slabs.

b. 30 paving slabs.

12m x 2m patio with 30 paving slabs in length and 5 in width



Content Domains: Multiplying and dividing decimals, Solving problems with measure, Calculating the area of rectangles (5M7b, 5M5, 5M9b)



2645 miles.

Content Domains: Solving problems with all operations (5C8b)

Challenge Question

a) 2254

b) 5720

Content Domains: Multiplication of whole numbers, Understanding of factors and multiples (5C7a, 5C8a, 5C8b)