PERCENTAGE WORD PROBLEMS 6.2B (UK VERSION)

Find the answers to these percentage word problems.

Round your answers to the nearest whole number where appropriate.

1) A pie shop sells 32 apple pies, 25 pumpkin pies, 21 cherry pies, and 18 chocolate pies. What percentage of pies sold were apple or cherry?	2) Newton watches a movie with his friends. They watch 30% of the movie and then take a break. They then watch the remaining 84 minutes. How long was the movie?
3) Captain's Autos sells 22 used cars on Monday, 17 cars on Tuesday and 15 cars on Wednesday. This was 60% of the number of sales for the week. How many cars did they sell altogether that week?	4) Sally spends 20% of her weekly budget on food, and 25% on rent. She has £330 left over. How much was her budget?
5) There are 40 Year 6 students and 28 Year 7 students in a group. 15% of the Year 6 students and 25% of the Year 7 students are vegan. How many vegans are in the group altogether?	6) Tyger and Newton have a long jump competition. Tyger jumps 20% further than Newton. If Newton jumps 475 cm, how far does Tyger jump?

Name _____ **Date** _____

PERCENTAGE WORD PROBLEMS 6.2B (UK VERSION) ANSWERS

Find the answers to these percentage word problems.

Round your answers to the nearest whole number where appropriate.

1) A pie shop sells 32 apple pies, 25 pumpkin pies, 21 cherry pies, and 18 chocolate pies.
What percentage of pies sold were apple or cherry?
32+25+21+18 = 96 pies in total sold.
32 + 21 = 53 pies are apple or cherry.
(53 ÷ 96) x 100 = 55.2.
55% of the pies sold were apple or cherry.

2) Newton watches a movie with his friends. They watch 30% of the movie and then take a break. They then watch the remaining 84 minutes. How long was the movie?
70% of the movie = 84 min. 70% = 0.7.
So 0.7 x movie length = 84 minutes.
Movie length = 84 ÷ 0.7 = 120 minutes or 2 hours.

3) Captain's Autos sells 22 used cars on Monday, 17 cars on Tuesday and 15 cars on Wednesday. This was 60% of the number of sales for the week.
How many cars did they sell altogether that week?
Mon-Wed sales = 22+17+15 = 54 cars.
So 60% of sales = 54 cars.
So 10% of sales = 54 ÷ 6 = 9 cars
Total Sales = 10% x 10 = 9 cars x 10 = 90 cars.
There were 90 car sales in the week.

4) Sally spends 20% of her weekly budget on food, and 25% on rent. She has £330 left over.
How much was her budget?

She spends 45% on food and rent.
So 55% of her budget = £330.
So 5% of her budget = £330 ÷ 11 = £33
Budget = 5% x 20 = £33 x 20 = £660.
Her weekly budget is £660.

5) There are 40 Year 6 students and 28 Year 7 students in a group. 15% of the Year 6 students and 25% of the Year 7 students are vegan. How many vegans are in the group altogether?

15% of 40 = 0.15 x 40 = 6
25% of 28 = 0.25 x 28 = 7
Total number of vegans = 6 + 7 = 13 students

6) Tyger and Newton have a long jump competition. Tyger jumps 20% further than Newton. If Newton jumps 475 cm, how far does Tyger jump?

20% of 475 = 0.2 x 475 = 95
So Tyger jumps 475 + 95 = 570 cm or 5.7 m