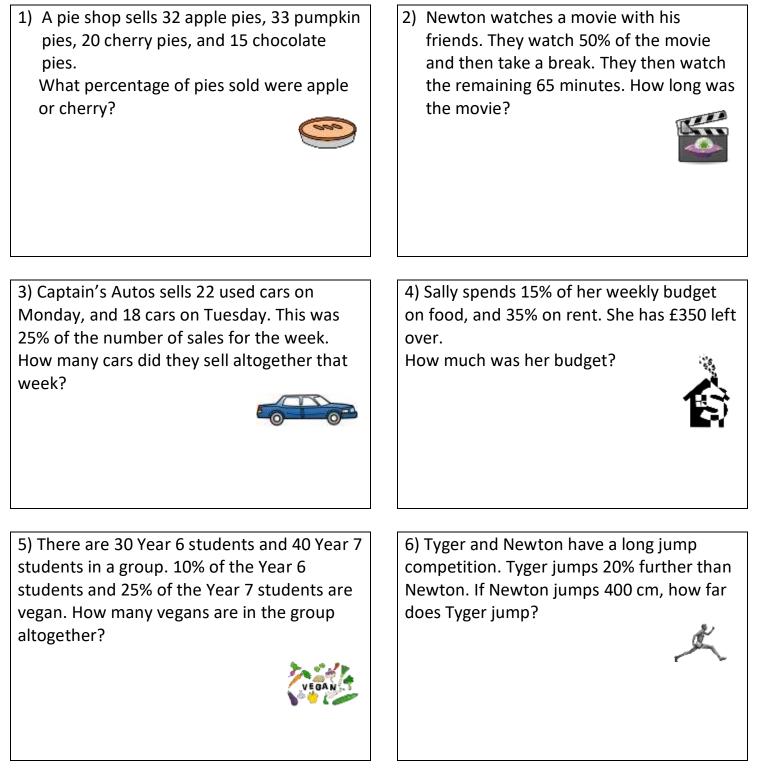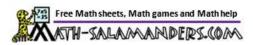# PERCENTAGE WORD PROBLEMS 6.2A (UK VERSION)

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, 33 pumpkin pies, 20 cherry pies, and 15 chocolate pies.
What percentage of pies sold were apple or cherry?

2) Newton watches a movie with his friends. They watch 50% of the movie and then take a break. They then watch the remaining 65 minutes. How long was the movie?

3) Captain's Autos sells 22 used cars on Monday, and 18 cars on Tuesday. This was 25% of the number of sales for the week. How many cars did they sell altogether that week?

4) Sally spends 15% of her weekly budget on food, and 35% on rent. She has £350 left over.
How much was her budget?

5) There are 30 Year 6 students and 40 Year 7 students in a group. 10% 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 400 cm, how far does Tyger jump?

PERCENTAGE WORD PROBLEMS 6.2A (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, 33 pumpkin pies, 20 cherry pies, and 15 chocolate pies.
What percentage of pies sold were apple or cherry?
32+33+20+15 = 100 pies in total sold.
32 + 20 = 52 pies are apple or cherry.
52 pies out of 100 = 52%
52% of the pies sold were apple or cherry.

3) Newton watches a movie with his friends. They watch 50% of the movie and then take a break. They then watch the remaining 65 minutes. How long was the movie?
50% of the movie = 65 minutes long
So the whole movie = 65 + 65 minutes = 130 minutes long

3) Captain's Autos sells 22 used cars on Monday, and 18 cars on Tuesday. This was 25% of the number of sales for the week. How many cars did they sell altogether that week?
Mon & Tue = 22 + 18 = 40 cards sold
25% x 4 = 100%
So there are 40 x 4 = 160 cars sold that week.

4) Sally spends 15% of her weekly budget on food, and 35% on rent. She has £350 left over.
How much was her budget?
She spends 15% + 35% = 50% on food and rent.
So 50% of her budget is left.
50% of her budget = £350.
So her budget is £350 + £350 = £700

5) There are 30 Year 6 students and 40 Year 7 students in a group. 10% of the Year 6 students and 25% of the Year 7 students are vegan. How many vegans are in the group altogether?

10% of 30 = 0.1 x 30 = 3
25% of 40 = 0.25 x 40 = 10
Total number of vegan = 3 + 10 = 13 students

6) Tyger and Newton have a long jump competition. Tyger jumps 20% further than Newton. If Newton jumps 400 cm, how far does Tyger jump?

20% of 400 = 0.2 x 400 = 80 cm
So Tyger jumps 400 + 80 = 480 cm