Name Date

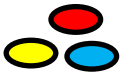
# PERCENTAGE WORD PROBLEMS 6.1B

*Find the answers to these percentage word problems.*

*Round your answers to the nearest whole number where appropriate.*

1) In a group of 80 children, 35% of the students are in 6th grade. 9 of the 6th graders have blue eyes.
What percentage of the 6th graders have blue eyes?

2) In a packet of 50 skittles, 12 are red, 8 are yellow, 10 are green, 14% are orange and the rest are blue.
What percentage of the skittles are blue?



3) Tyger spends 25 minutes studying mathematics, 35 minutes studying science and 20 minutes studying history. What percentage of his time is spend studying science?

4) Frazer scores 80% overall in two tests. Both tests had 35 marks. In the first test, he got 27 correct. How many questions did he get right in the second test?

5) Toronto FC have lost 12 of the 40 games and drawn 15% of the games they have played. What percentage of games have they won?

6) In a group of 150 children, 6 have green eyes, 52% have brown eyes, 16% have gray eyes, and the rest have blue eyes.
What percentage of the children have blue eyes?

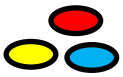
Name Date

# PERCENTAGE WORD PROBLEMS 6.1B ANSWERS

1) In a group of 80 children, 35% of the students are in 6th grade. 9 of the 6th graders have blue eyes.
What percentage of the 6th graders have blue eyes?

35% of 80 = 0.35 x 80 = 28 students in 6th grade.
So 9/28 of the 6th graders have blue eyes
(9 ÷ 28) x 100 = 32.1%
So 32% of the 6th graders have blue eyes.

2) In a packet of 50 skittles, 12 are red, 8 are yellow, 10 are green, 14% are orange and the rest are blue.
What percentage of the skittles are blue?



14% of 50 = 0.14 x 50 = 7 skittles are orange.
12 + 8 + 10 + 7 = 37 skittles.
50 – 37 = 13 blue skittles.
13/50 = 26/100
So 26% of the skittles are blue.

3) Tyger spends 25 minutes studying mathematics, 35 minutes studying science and 20 minutes studying history. What percentage of his time is spend studying science?

25 + 35 + 20 = 80 minutes
35/80 minutes are spend studying science.
(35 ÷ 80) x 100 = 43.75%
So Tyger spends 44% of his time studying science.

4) Frazer scores 80% overall in two tests. Both tests had 35 marks. In the first test, he got 27 correct. How many questions did he get right in the second test?

35 + 35 = 70 questions.
80% of 70 = 0.8 x 70 = 56 correct.
56 – 27 = 29. So he got 29 correct in the second test.

5) Toronto FC have lost 12 of the 40 games and drawn 15% of the games they have played. What percentage of games have they won?

15% of 40 = 0.15 x 40 = 6 games drawn
40 – 12 – 6 = 22 games won.
(22 ÷ 40) x 100 = 55%
So they won 55% of their games.

6) In a group of 150 children, 6 have green eyes, 52% have brown eyes, 16% have gray eyes, and the rest have blue eyes. What percentage of the children have blue eyes?
52% of 150 = 78 children brown eyes
16% of 150 = 24 children gray eyes
6 + 78 + 24 = 108 children
150 – 108 = 42 children blue eyes.
(42 ÷ 150) x 100 = 28% with blue eyes.