# <u>Homework/Extension</u> <u>Step 6: Percentages – Missing Values</u>

# National Curriculum Objectives:

Mathematics Year 6: (6R2) <u>Solve problems involving the calculation of percentages [for</u> <u>example, of measures, and such as 15% of 360] and the use of percentages for</u> comparison

Mathematics Year 6: (6F11) <u>Recall and use equivalences between simple fractions</u>, decimals and percentages, including in different contexts

## Differentiation:

© Classroom Secrets Limited 2020

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Circle the correct whole to complete the given statements. Percentages are multiples of 10%.

**Expected** Circle the correct whole to complete the given statements. Percentages are multiples of 5% and 10%. Some answers include decimal places.

Greater Depth Circle the correct whole to complete the given statements. Includes any percentage, including multiples of 0.5%. Answers may include decimal places.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Complete the comparative statements using the values provided. Percentages are multiples of 10%.

**Expected** Complete the comparative statements using the values provided. Percentages are multiples of 5% and 10%, with some multiples of 1%. Some answers include decimal places.

Greater Depth Complete the comparative statements using the values provided. Includes any percentage, including multiples of 0.5%. Answers may include decimal places.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

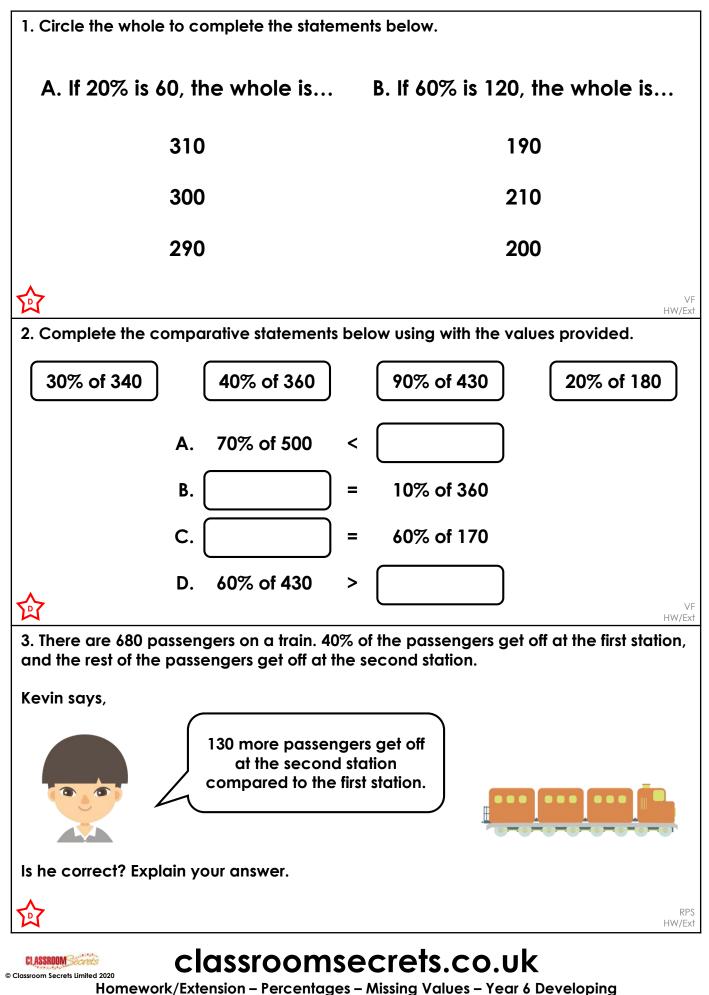
Developing Agree or disagree with a given statement. Percentages are multiples of 10%. Expected Agree or disagree with a given statement. Percentages are multiples of 5% and 10%, with some multiples of 1%. Some answers include decimal places. Greater Depth Agree or disagree with a given statement. Includes any percentage, including multiples of 0.5%. Answers may include decimal places.

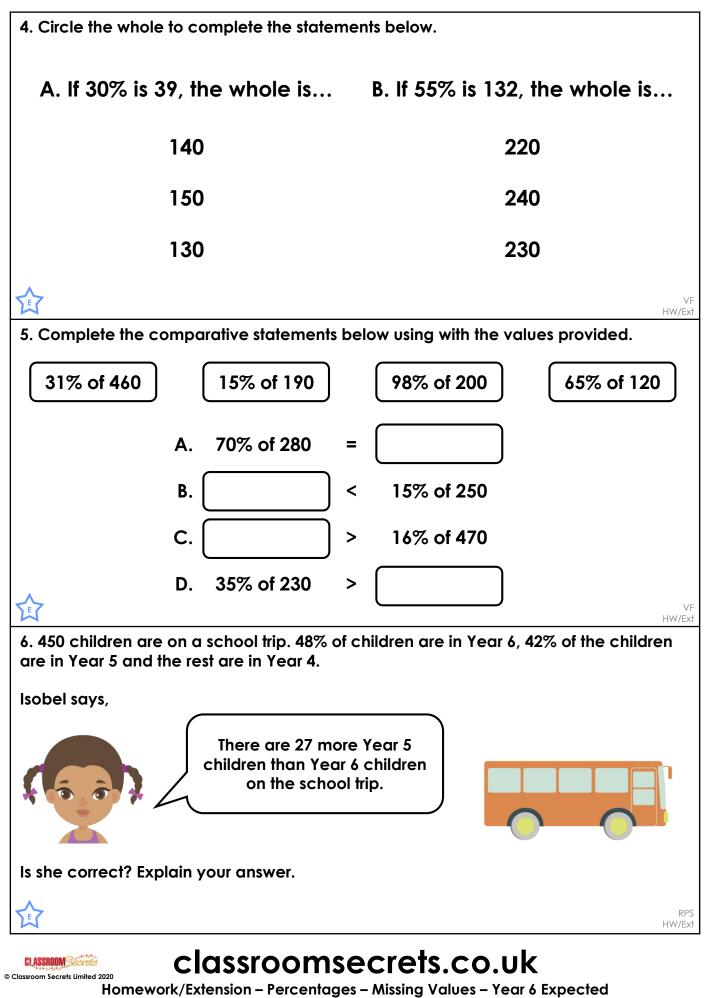
More <u>Year 6 Percentages</u> resources.

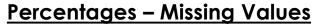
Did you like this resource? Don't forget to <u>review</u> it on our website.

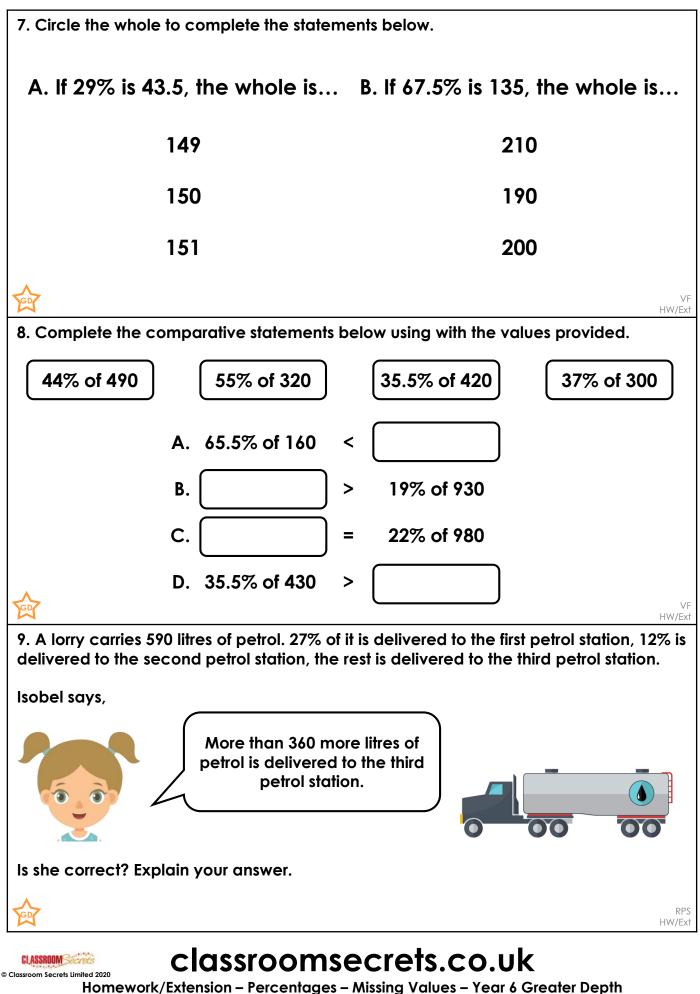
classroomsecrets.co.uk

Homework/Extension – Percentages – Missing Values – Teaching Information









### Homework/Extension Percentages – Missing Values

#### Developing

1. A. 300; B. 200

2. A. 90% of 430; B. 20% of 180; C. 30% of 340; D. 40% of 360

3. Various answers, for example:

Kevin is incorrect. 136 more passengers got off at the second station compared to the first station, not 130. This is because 40% of 680 is 272 and 60% of 680 is 408; 408 passengers – 272 passengers = 136 passengers.

### Expected

4. A. 130; B. 240

5. A. 98% of 200; B. 15% of 190; C. 31% of 460; D. 65% of 120

6. Various answers, for example:

Isobel is incorrect. There are 27 more Year 6 children than Year 5 children on the school trip, not the other way round. This is because 48% of 450 is 216 and 42% of 451890 is 184; 216 children – 189 children = 27 children.

### <u>Greater Depth</u>

7. A. 150; B. 200

8. C. 44% of 490; A, B and D – various answers, for example: A. 37% of 300; B. 55% of 320; D. 35.5% of 420

9. Various answers, for example:

Isobel is incorrect. This is because 27% + 12% = 39%; 39% of 590L = 230.1L. The petrol that is delivered to the third petrol station makes up the remaining 61%; 61% of 590 = 359.9L.



classroomsecrets.co.uk

Homework/Extension – Percentages – Missing Values ANSWERS