

Homework/Extension

Step 5: Percentage of an Amount 2

National Curriculum Objectives:

Mathematics Year 6: (6R2) [Solve problems involving the calculation of Percentage \[for example, of measures, and such as 15% of 360\] and the use of Percentage for comparison](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match the calculations to the correct amounts shown. Includes finding multiples of 10%. No conversions.

Expected Match the calculations to the correct amounts shown. Includes any multiple of 5% and 10%, with some multiples of 1%. Some conversions included.

Greater Depth Match the calculations to the correct amounts shown. Includes any percentage, including multiples of 0.5%. Conversions included. Answers may include decimal places.

Questions 2, 5 and 8 (Varied Fluency)

Developing Order the value of the cards shown in ascending order. Includes finding multiples of 10%. No conversions.

Expected Order the value of the cards shown in ascending order. Includes any multiple of 5% and 10%, with some multiples of 1%. Some conversions included.

Greater Depth Order the value of the cards shown in descending order. Includes any percentage, including multiples of 0.5%. Conversions included. Answers may include decimal places.

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

Developing Agree with a given statement and explain why it is correct. Includes finding multiples of 10%. No conversions.

Expected Agree with a given statement and explain why it is correct. Includes any multiple of 5% and 10%, with some multiples of 1%. Some conversions included.

Greater Depth Agree with a given statement and explain why it is correct. Includes any percentage, including multiples of 0.5%. Conversions included. Answers may include decimal places.

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Percentage of an Amount 2

1. Match the calculations to the correct amounts below.

A. 30% of 120

B. 70% of 60

C. 40% of 140

1. 42

2. 56

3. 36



VF
HW/Ext

2. Order the value of the cards below in ascending order.

A. 30% of 190

B. 20% of 310

C. 70% of 110

D. 40% of 330

E. 60% of 130



VF
HW/Ext

3. Becky and Tyler are comparing their scores from two different tests.



Becky

My test was out of 80. I did better than Tyler because I scored 40%.

My test was out of 100. I did better than Becky because I scored 36 marks.



Tyler

Who do you agree with? Convince me.



RPS
HW/Ext

Percentage of an Amount 2

4. Match the calculations to the correct amounts below.

A. 35% of 160

B. 65% of 120

C. 45% of 300

1. 78

2. 135

3. 56



VF
HW/Ext

5. Order the value of the cards below in ascending order.

A. 25% of 340

B. 81% of 300

C. 65% of 180

D. 59% of 200

E. 15% of 560



VF
HW/Ext

6. Harry and Kylie are comparing different amounts of money.



Harry

I would rather have
35% of £460.

I would rather have
64% of £250.



Kylie

Who do you agree with? Convince me.



RPS
HW/Ext

Percentage of an Amount 2

7. Match the calculations to the correct amounts below.

A. 37.5% of £160

B. 49% of £120

C. 41% of £150

1. £61.50

2. £60

3. £58.80



VF
HW/Ext

8. Order the value of the cards below in descending order.

A. 12.5%
of 300

B. 63% of
110

C. 82% of
180

D. 87.5%
of 160

E. 18% of
510



VF
HW/Ext

9. Nancy and Jed are comparing different lengths of rope.



Nancy

The length of my rope is 58% of 3.6m. My rope is longer than Jed's.

The length of my rope is 43% of 4.9m. My rope is longer than Nancy's.



Jed

Who do you agree with? Convince me.



RPS
HW/Ext

Homework/Extension

Percentage of an Amount 2

Developing

1. A. 3, B. 1, C. 2

2. A = 57, B = 62, C = 77, D = 132, E = 78.

The order of the cards in ascending order should be: A, B, C, E and D.

3. Various answers, for example:

I agree with Becky. 40% of Becky's test was correct (which is equal to 32 out of 80 marks), whereas only 36% of Tyler's test was correct, as 36 marks out of 100 is equal to 36%. Although Tyler scored more marks, his test was out of more, so he scored a lower percentage.

Expected

4. A. 3, B. 1, C. 2

5. A = 85, B = 243, C = 117, D = 118, E = 84.

The order of the cards in ascending order should be: E, A, C, D and B.

6. Various answers, for example:

I agree with Harry. This is because 64% of £250 is £160, whereas 35% of £460 is £161.

Greater Depth

7. A. 2, B. 3, C. 1

8. A = 37.5, B = 69.3, C = 147.6, D = 140, E = 91.8.

The order of the cards in descending order should be: C, D, E, B and A.

9. Various answers, for example:

I agree with Jed. This is because 43% of 4.9m is 2m and 10.7cm (or 210.7cm), whereas 58% of 3.6m is only 2m and 8.8cm (or 208.8cm).