

# Homework/Extension

## Step 3: Estimate and Approximate

### National Curriculum Objectives:

Mathematics Year 5: (5C3) [Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Use the numbers provided to fill in the calculations using approximation. Using up to and including 4-digit numbers, rounding to the nearest 10, 100 or 1,000.

**Expected** Use the numbers provided to fill in the calculations using approximation. Using up to and including 5-digit numbers, rounding to the nearest 100, 1,000 or 10,000.

**Greater Depth** Use the numbers provided to fill in the calculations using approximation. Using up to and including 5-digit numbers, rounding to the nearest 100, 1,000 or 10,000. Numbers are used within the context of lengths.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Match the statements to the correct approximations. Using up to and including 4-digit numbers, rounding to the nearest 10, 100 or 1,000. Rounding whole numbers only.

**Expected** Match the statements to the correct approximations. Using numbers with 2 decimal places (rounding to the nearest whole) in the context of money.

**Greater Depth** Match the statements to the correct approximations. Using up to and including 5-digit numbers, rounding to the nearest 100, 1,000 or 10,000. Numbers are used within the context of lengths.

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

**Developing** Estimate the answer to the given calculation. Find the approximate total for the calculation by rounding to the nearest 10 then to the nearest 100. Using up to and including 4-digit numbers.

**Expected** Estimate the answer to the given calculation. Find the approximate total for the calculation by rounding to the nearest 1,000 then to the nearest 10,000. Using up to and including 5-digit numbers.

**Greater Depth** Estimate the answer to the given calculation. Find the approximate total for the calculation by rounding to the nearest 1,000 then to the nearest 10,000. Using up to and including 5-digit numbers. Numbers are used within the context of lengths with mixed measurements.

More Year 5 [Addition and Subtraction](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

# Estimate and Approximate

1. Use the numbers to complete the sentences.

821

5,410

356

7,100

A. 8,459 – 1,385 is approximately


B. 5,772 –  is approximately

C.  + 1,146 is approximately 2,000




VF  
HW/Ext

2. Match the children's statements to the approximate amount of marbles each child has collected.

1.  Last year I got 313 marbles and this year I got 281 marbles.

2.  Last year I got 68 marbles and this year I got 115 marbles.

3.  Last year I got 964 marbles and this year I got 2,249 marbles.



A 190 marbles



B 3000 marbles



C 600 marbles



VF  
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3. Estimate the answer to the calculation below.

$$1,562 + 924 = ?$$

Round each number to the nearest 10. What is the approximate answer?

If you round to the nearest 100, what is the difference between the two answers?



RPS  
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## Estimate and Approximate

4. Use the numbers to complete the sentences.

6,678

12,000

29,812

8,100

11,585

2,967

A.  + 1,350 is approximately

B. 15,412 -  is approximately

C.  +  is approximately 40,000



VF  
HW/Ext

5. Match the children's statements to the approximate amount of money each child has saved.

1.  Last week I saved £23.67 and this week I saved £27.50.

2.  Last week I saved £18.45 and this week I saved £14.93.

3.  Last week I saved £13.16 and this week I saved £35.68.



£33



£52



£49



VF  
HW/Ext

6. Estimate the answers to the calculation below.

$$5,378 + 22,526 = ?$$

Round each number to the nearest 1,000. What is the approximate answer?

If you round to the nearest 10,000, what is the difference between the two answers?



RPS  
HW/Ext

# Estimate and Approximate

7. Use the numbers to complete the sentences.

20,000m

48,392m

31,400m

6km

10km

12,153m

A.  $\frac{1}{2}$  of  + 7,238m is approximately

B.  $\frac{1}{4}$  of  +  is approximately 9,000m

C.  $\frac{1}{3}$  of 92,331m -  is approximately



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HW/Ext

8. Match the children's statements to the approximate perimeter length of each child's rectangle.



Two sides of my rectangle are 3m and two sides are 627cm.

**A** 80,000m



Two sides of my rectangle are 8,119m and two sides are 3km.

**B** 22,000m



Two sides of my rectangle are 11,302m and two sides are 27,734m.

**C** 1,800cm



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HW/Ext

9. Estimate the answers to the calculation below.

$$13,369\text{m} - 5\frac{3}{4}\text{km} = ?$$

Round each number to the nearest 1,000. What is the approximate answer?

If you round to the nearest 10,000, what is the difference between the two answers?



RPS  
HW/Ext

## Homework/Extension

### Estimate and Approximate

#### Developing

1. A: 7,100; B: 356 and 5,410 or 5,410 and 356; C: 821

2. 1C, 2A, 3B

3. Accept an appropriate estimate.

$$1,560 + 920 = 2,480$$

$$1,600 + 900 = 2,500$$

The difference between the two answers is 20.

#### Expected

4. A: 6,678 and 8,100; B: 2,967 and 12,000 or 12,000 and 2,967; C: 29,812 and 11,585

5. 1B, 2A, 3C

6. Accept an appropriate estimate.

$$5,000 + 23,000 = 28,000$$

$$10,000 + 20,000 = 30,000$$

The difference between the two answers is 2,000.

#### Greater Depth

7. A: 48,392m and 31,400m; B: 12,153m and 6km; C: 10km and 20,000m

8. 1C, 2B, 3A

9. Accept an appropriate estimate.

$$13,000 - 6,000 = 7,000$$

$$10,000 - 10,000 = 0$$

The difference between the two answers is 7,000.