

Bronze

1a. Match numbers which would add together to give an approximate answer of 4,100.

2,345

3,030

471

1,783

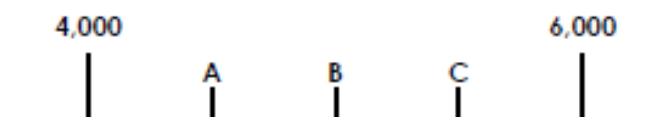
1,059

3,632



VF

2a. Which mark on the number line below shows approximately 4,500?



VF

3a. Choose the best calculation for an approximate answer of 830.

A. $508 - 319$

B. $582 + 343$

C. $409 + 423$



VF

4a. Estimate the answers to the following calculations:

A. $5,285 - 2,144$

B. $1,495 + 6,507$

C. $7,812 - 396$

1b. Rachel has answered the following calculation:

$$3,857 - 1,743 = 2,314$$

Use an approximate calculation to explain whether Rachel's answer is likely to be correct.



R

2b. Cole has been given the numbers below:

284

1,459

515

He wants to show the approximate total of the three numbers using place value counters, but he only has hundreds counters.

How many hundreds counters will he need?



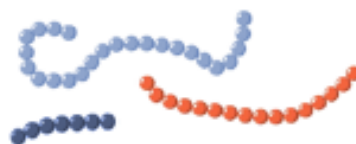
PS

3b. Sonya wants to collect 1,856 more beads.

She has 2,000 beads in her collection.

She estimates she will have 3,000 beads after she has collected her new beads.

Is Sonya's estimation correct? Prove it.



Silver

5a. Match numbers which would add together to give an approximate answer of £78.

£55.10

£31.49

£46.77

£38.52

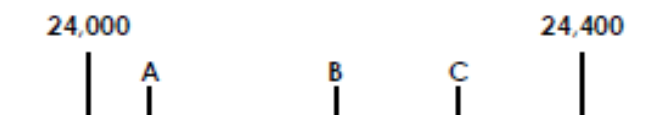
£39.23

£22.68



VF

6a. Which mark on the number line below shows approximately 24,300?



VF

7a. Choose the best calculation for an approximate answer of 13,000.

A. $6,427 + 5,582$

B. $8,591 + 4,305$

C. $15,218 - 3,860$



VF

8a. Estimate the answers to the following calculations:

A. $7,834 + 5,790$

B. $39,582 - 20,605$

C. $£76.61 - £48.27$

4b. Emily has answered the following calculation:

$$30,239 + 7,122 = 37,361$$

Use an approximate calculation to explain whether Emily's answer is likely to be correct.



R

5b. Luke has been given the amounts below:

£6.85

£55.94

£21.41

He wants to show the approximate total of the three amounts using real money, but he only has one pound coins.

How many one pound coins will he need?



PS

6b. Esther wants to buy a character in her computer game. It costs 17,750 credits.

She has 80,000 credits in the game.

She estimates she will have 60,000 credits left after she has bought the character.

Is Esther's estimation correct? Prove it.



Gold

9a. Match numbers which would add together to give an approximate answer of 8,700m.

4,834m

6,353m

$2\frac{1}{4}$ km

2,215m

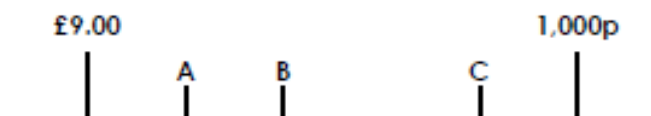
$6\frac{1}{2}$ km

3,946m



VF

10a. Which mark on the number line below shows approximately £9.40?



VF

11a. Choose the best calculation for an approximate answer of 16,000m.

A. $7\frac{3}{4}$ km + 9,504m

B. 11,863m + 5,024m

C. 19,639m - $3\frac{1}{2}$ km



VF

12a. Estimate the answers to the following calculations:

A. 34,354cm + $7\frac{1}{4}$ m

B. £295.73 - 4,828p

C. $8\frac{1}{2}$ km + 15,039m



7b. Seren has answered the following calculation:

$$53,493\text{m} - 9\frac{3}{4}\text{km} = 49,919\text{m}$$

Use an approximate calculation to explain whether Seren's answer is likely to be correct.



R

8b. Omri has been given the lengths below:

11,209cm

$7\frac{1}{2}$ m

5,247cm

He wants to show the approximate total of the three numbers using pieces of rope, but he only has ropes which are 1,000cm long.

How many 1,000cm pieces of rope will he need?



PS

9b. Olivia wants to buy a tree house. It costs £244.89.

She has £290 in her bank account.

She estimates she will have 3,500p left after she has bought the tree house.

Is Olivia's estimation correct? Prove it.



Challenge

1. Managers of the food chain, Maccydoodles, are estimating the total takings for the day at 6 of their restaurants.

<u>Restaurant</u>	<u>Total takings</u>
Manchester	£482.65
Halifax	£593.70
London	£743.38
Newcastle	£2,364
Cardiff	£482.64
Edinburgh	£795.61

Use your knowledge of rounding to explore three approximate totals for all of the restaurants combined.