

Name:

Exam Style Questions

Rounding: Highest/Lowest



Corbettmaths

Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 280



Answers and Video Solutions



1. A sign says there are 230 people that live in a village, correct to the nearest 10.



(a) Write down the lowest possible number of people that live in the village.

225
.....
(1)

(b) Write down the greatest possible number of people that live in the village.

234
.....
(1)

2. David is thinking of a whole number



“When I round the number to the nearest 100, the answer is 600.”

What is the smallest possible number David could be thinking of?

550
.....
(1)

What is the largest possible number David could be thinking of?

649
.....
(1)

3.



Frome
Population 26,000

This sign is correct to the nearest thousand.

(a) What is the lowest possible number of people that live in Frome?

25500
(1)

(b) What is the greatest possible number of people that live in Frome?

26499
(1)

4. A newspaper says the number of people at a football match is 44,000.
This is correct to the nearest 1000.



What is the lowest possible number of people at the match?

43500
(1)

5. A farmer says she has 2,500 sheep, to the nearest 100.



What is the greatest possible number of sheep she has?

2549

(1)

6. Karina has £1950, correct to the nearest £10.
Joel has £2000, correct to the nearest £100.



Show that Karina could have more money than Joel.

Karina could have as much as £1954.99
Joel could have as little as £1950
therefore Karina could have more than Joel.

(3)

7. There are 60 pencils in a tub, correct to the nearest 10.



Miss Harrison hands out 8 tubs of pencils.

What is the lowest possible number of pencils that Miss Harrison has given out?

$$8 \times 55$$

440

(2)

8. Nicola is organising a concert to raise money for charity.



Entry to the concert is £4.00

The number of people attending concert is 800 to the nearest hundred.

What is the greatest possible amount of money she raised for charity?

Max - 849 people

$$849 \times 4 = \text{£ } 3396$$

£ 3396
.....
(3)

9. There are 80 pens, to the nearest 10, in Box A. Max 84



There are 200 pens, to the nearest 10, in Box B. Max 204

Work out the greatest possible number of pens in total.

$$204 + 84 = 288$$

288
.....
(3)

10. The population of Northern Ireland is 1.9 million, to the nearest hundred thousand.



1,900,000

- (a) What is the lowest possible number of people that live in Northern Ireland?

1,850,000
.....
(1)

- (b) What is the greatest possible number of people that live in Northern Ireland?

1,949,999
.....
(1)

-
11. Deja has \$12000 to the nearest hundred dollars.



- (a) Write down the least possible amount of money that Deja has.

\$11950
.....
(1)

- (b) Write down the greatest possible amount of money that Deja has.

\$12049.99
.....
(1)

12. Tomas has 6 bags of 20p coins and 8 bags of 50p coins.



Each bag of 50p coins contains 100 coins to the nearest 10.
Each bag of 20p coins contains £5 to the nearest pound.

Work out the difference between the greatest and smallest amount of money that Tomas has.

50p

Max - 104 coins
£52
in one bag

Min - 95 coins
£47.50
in one bag

Total (50p) $8 \times 52 = £416$ (max)
 $8 \times 47.50 = £380$ (min)

Max Total
 $£416 + £32.40 = £448.40$

Min total
 $£380 + £27.60 = £407.60$

20p

Max - £5.40 in a bag
 $6 \times £5.40 = £32.40$

min - £4.60 in a bag
 $6 \times £4.60 = £27.60$

Difference

$448.40 - 407.60$

£ 40.80
(5)