

11+ Maths Practice Paper

Year 6 · Advanced

Lesson 1.3: Rounding strategies

Read this with your child:

1. This paper has **27 questions** in two parts. Work through them in order. The questions get harder as you go.
2. **Part 1** is multiple choice. Choose **one** answer, A, B, C, D or E, and mark it on the separate answer sheet by drawing a firm line through the box next to its letter. If you change your mind, rub the line out completely and mark your new answer.
3. **Part 2** asks you to write your answer. Write it in the boxes on the answer sheet, **one digit in each box**, starting from the left.
4. If a question is hard, leave it and come back to it at the end.
5. You may use rough paper for working out. You may **not** use a calculator.
6. Suggested time: **35 minutes**.

The answer sheet is after the questions. The answers, with a short explanation of each, are at the back for a parent to mark with.

These are original practice questions written by Elite Learners in the style of 11+ entrance tests. They are not produced by, or connected with, GL Assessment or Cambridge University Press & Assessment (CEM).

Example

Round 3.462 to 1 decimal place.

A 3

B 3.4

C 3.46

D 3.5

E 3.47

Answer: D Keep 1 digit after the point. The decider is 6, so round up: 3.5.

The answer, D, has already been marked on your answer sheet.

Now turn over and start Part 1.

Part 1: Multiple choice

1

Round 7.385 to 2 decimal places.

- A 7.3 B 7.38 C 7.4 D 7.385 E 7.39

2

Round 0.648 to 1 decimal place.

- A 0.7 B 0.6 C 0.65 D 1 E 0.64

3

Round 2.97 to 1 decimal place.

- A 3.1 B 2.9 C 2.10 D 3.0 E 2.0

4

Round 849,512 to the nearest 1000.

- A 850,000 B 849,000 C 849,500 D 800,000 E 850,500

5

Round 4.995 to 2 decimal places.

- A 4.10 B 4.99 C 5.00 D 4.9 E 5.01

6

A number with 2 decimal places rounds to 6.4 to 1 decimal place.

What is the smallest it could be?

- A 6.30 B 6.36 C 6.35 D 6.34 E 6.4

7

A number with 2 decimal places rounds to 6.4 to 1 decimal place.

What is the largest it could be?

- A 6.44 B 6.45 C 6.49 D 6.4 E 6.43

8

A crowd is 24,000 people, to the nearest 1000.

What is the largest the crowd could be?

- A** 24,449 **B** 24,500 **C** 24,999 **D** 23,500 **E** 24,499
-

9

Which number rounds to 2.5 to 1 decimal place AND to 3 to the nearest whole number?

- A** 2.47 **B** 2.52 **C** 2.49 **D** 2.56 **E** 2.44
-

10

Round 1,234,567 to the nearest 1000.

- A** 1,230,000 **B** 1,234,000 **C** 1,234,600 **D** 1,235,000 **E** 1,234,500
-

11

Ali rounds 3,450 to the nearest 100. Bea rounds 3,449 to the nearest 100.

What is the difference between their answers?

- A** 1 **B** 100 **C** 0 **D** 50 **E** 10
-

12

Round 19.995 to 2 decimal places.

- A** 20.10 **B** 19.99 **C** 19.90 **D** 20.00 **E** 19.10
-

13

What is 6.75 rounded to the nearest whole number, and to 1 decimal place?

- A** 6 and 6.8 **B** 7 and 6.7 **C** 7 and 6.8 **D** 6 and 6.7 **E** 7 and 7.0
-

14

Which number rounds to 5,000 to the nearest 1000, but to 4,900 to the nearest 100?

- A** 5,049 **B** 4,950 **C** 4,849 **D** 4,449 **E** 4,870
-

15

The mass of a parcel is 3.6 kg to 1 decimal place.

Which could be its exact mass?

- A** 3.64 kg **B** 3.65 kg **C** 3.54 kg **D** 3.67 kg **E** 3.5 kg

16

Round 999,500 to the nearest 1000.

- A** 100,000 **B** 999,000 **C** 999,500 **D** 990,000 **E** 1,000,000
-

17

How many whole numbers round to 70 to the nearest 10?

- A** 10 **B** 9 **C** 11 **D** 5 **E** 20
-

18

A number rounds to 3.46 to 2 decimal places.

Which could it NOT be?

- A** 3.46 **B** 3.455 **C** 3.464 **D** 3.465 **E** 3.459
-

19

Round 0.995 to 1 decimal place.

- A** 0.9 **B** 1.0 **C** 0.10 **D** 1.1 **E** 0.99
-

20

I am a whole number. To the nearest 10, I round to 250. To the nearest 100, I round to 200.

Which number could I be?

- A** 244 **B** 251 **C** 247 **D** 253 **E** 250

Part 2: Write your answer

21

Round 645,280 to the nearest 1000.

Write your answer in the boxes on the answer sheet, one digit in each box.

22

Round 645,280 to the nearest 100.

Write your answer in the boxes on the answer sheet, one digit in each box.

23

Round 99.5 to the nearest whole number.

Write your answer in the boxes on the answer sheet, one digit in each box.

24

What is the smallest whole number that rounds to 3,000 to the nearest 1000?

Write your answer in the boxes on the answer sheet, one digit in each box.

25

What is the largest whole number that rounds to 3,000 to the nearest 1000?

Write your answer in the boxes on the answer sheet, one digit in each box.

26

How many whole numbers round to 400 to the nearest 100?

Write your answer in the boxes on the answer sheet, one digit in each box.

27

A whole number rounds to 120 to the nearest 10, and to 100 to the nearest 100.

What is the largest it could be?

Write your answer in the boxes on the answer sheet, one digit in each box.

Answer sheet

11+ Maths Practice Paper · Year 6 · Lesson 1.3: Rounding strategies

Name

Draw a firm line through the box next to your answer, like the example.

Part 1: Multiple choice

Ex	A ☐	B ☐	C ☐	D ☒	E ☐
1	A ☐	B ☐	C ☐	D ☐	E ☐
2	A ☐	B ☐	C ☐	D ☐	E ☐
3	A ☐	B ☐	C ☐	D ☐	E ☐
4	A ☐	B ☐	C ☐	D ☐	E ☐
5	A ☐	B ☐	C ☐	D ☐	E ☐
6	A ☐	B ☐	C ☐	D ☐	E ☐
7	A ☐	B ☐	C ☐	D ☐	E ☐
8	A ☐	B ☐	C ☐	D ☐	E ☐
9	A ☐	B ☐	C ☐	D ☐	E ☐
10	A ☐	B ☐	C ☐	D ☐	E ☐
11	A ☐	B ☐	C ☐	D ☐	E ☐
12	A ☐	B ☐	C ☐	D ☐	E ☐
13	A ☐	B ☐	C ☐	D ☐	E ☐
14	A ☐	B ☐	C ☐	D ☐	E ☐
15	A ☐	B ☐	C ☐	D ☐	E ☐
16	A ☐	B ☐	C ☐	D ☐	E ☐
17	A ☐	B ☐	C ☐	D ☐	E ☐
18	A ☐	B ☐	C ☐	D ☐	E ☐
19	A ☐	B ☐	C ☐	D ☐	E ☐
20	A ☐	B ☐	C ☐	D ☐	E ☐

Part 2: Write your answer, one digit in each box

21						
22						
23						
24						
25						
26						
27						

Answers

For a parent to mark with. One mark for each question: the paper is out of 27. Talk through any your child got wrong, using the explanation.

Q	Answer	How to get it
1	E 7.39	The decider is the thousandths digit, 5, so round up: 7.39.
2	B 0.6	The decider is the hundredths digit, 4, so round down: 0.6.
3	D 3.0	The decider is 7, so round up. 9 tenths become 10 tenths, which is 1 whole. Keep the 0: 3.0.
4	A 850,000	The decider is the hundreds digit, 5, so round up: 850,000.
5	C 5.00	The decider is 5, so round up. 499 hundredths plus 1 is 500 hundredths: 5.00.
6	C 6.35	6.35 is halfway between 6.3 and 6.4, and halfway rounds up to 6.4.
7	A 6.44	6.45 is halfway and rounds up to 6.5, so the largest is 6.44.
8	E 24,499	24,500 is halfway and would round up to 25,000, so the largest is 24,499.
9	B 2.52	To round to 3 it must be 2.5 or more. To round to 2.5 it must be less than 2.55. Only 2.52 does both.
10	D 1,235,000	The decider is the hundreds digit, 5, so round up: 1,235,000.
11	B 100	Ali gets 3,500 (halfway rounds up). Bea gets 3,400. The difference is 100.
12	D 20.00	The decider is 5, so round up. 1,999 hundredths plus 1 is 2,000 hundredths: 20.00.
13	C 7 and 6.8	Nearest whole number: the decider is 7, so 7. 1 decimal place: the decider is 5, so 6.8.
14	E 4,870	4,870 rounds up to 5,000 (decider 8) and up to 4,900 (decider 7). The others fail one test.
15	A 3.64 kg	It must be from 3.55 up to, but not including, 3.65. Only 3.64 kg fits.
16	E 1,000,000	Halfway rounds up. 999 thousands plus 1 is 1,000 thousands: one million.
17	A 10	They are 65, 66, 67, 68, 69, 70, 71, 72, 73 and 74: ten numbers.
18	D 3.465	3.465 is halfway between 3.46 and 3.47, so it rounds up to 3.47.
19	B 1.0	The decider is 9, so round up. 9 tenths become 10 tenths: 1 whole. Keep the 0: 1.0.
20	C 247	247 rounds to 250 and to 200. 251, 253 and 250 round to 300; 244 rounds to 240.
21	645,000	The decider is the hundreds digit, 2, so round down: 645,000.
22	645,300	The decider is the tens digit, 8, so round up: 645,300.
23	100	99.5 is halfway, so round up: 100.
24	2,500	2,500 is halfway, and halfway rounds up to 3,000.

Q	Answer	How to get it
25	3,499	3,500 is halfway and rounds up to 4,000, so the largest is 3,499.
26	100	They run from 350 to 449. That is 100 numbers.
27	124	To the nearest 10 it is 115 to 124. All of those round to 100, so the largest is 124.

Score: out of 27