

N3 Ordering Decimals

OCR

(b) Write these decimals in order of size, smallest first.

17.3 1.5 17.06 1.08

(b)..... [1]
smallest

(b) Write these decimals in order of size, smallest first.

17.3

1.5

17.06

1.08

(b) 1.08 1.5 17.06 17.3 [1]
smallest

3 Write the following numbers in order of size, smallest first.

8.104 8.4 8.14 80.01 8.041

.....[2]
smallest

- 3 Write the following numbers in order of size, smallest first.

8.104 8.4 8.14 80.01 8.041

8.104 ✓
8.4
8.14
80.01 ✓
8.041 ✓

8.041 8.104 8.14 8.4 80.01 [2]
smallest

2 (a) Use one of these symbols $<$, $>$ or $=$ to make each statement true.

(i) 17.6 17.06 [1]

(ii) 0.9 $\frac{45}{50}$ [1]

(b) Round 184 329 to the nearest hundred.

(b) [1]

(c) Write $\frac{5}{8}$ as a decimal.

(c) [1]

2 (a) Use one of these symbols $<$, $>$ or $=$ to make each statement true.

(i) $17.6 > 17.06$

$$\begin{array}{r} 17.60 \\ 17.06 \end{array}$$

[1]

(ii) $0.9 = \frac{45}{50}$

[1]

(b) Round 184 329 to the nearest hundred.

(b) 184300 [1]

(c) Write $\frac{5}{8}$ as a decimal.

(c) 0.625 [1]

(b) Complete the statement below using a number from this list.

N14

-2

0

-6

6

-5 > [1]

(c) Write the following numbers in order of size, smallest first.

N3

0.4

0.5

0.06

0.444

0.46

..... [2]
smallest

(b) Complete the statement below using a number from this list.

N14

-2

0

-6

6

is greater than



-5 >

-6

[1]

(c) Write the following numbers in order of size, smallest first.

N3

0.4

0.5

0.06

0.444

0.46

0.400

0.500

0.060 ✓

0.444

0.460

0.06

smallest

0.4

0.444

0.46

0.5

[2]

6 Write the following in order of size, starting with the smallest.

N3

0.41 0.403 0.438 0.4374

..... [2]
smallest

6 Write the following in order of size, starting with the smallest.

0.41 0.403 0.438 0.4374

N3

→ 0.4100

→ 0.4030

0.4380

0.4374

0.403 0.41 0.4374 0.438

..... [2]

smallest

18 Tom researches the weights of plant seeds.

- N3
- N47
- One poppy seed weighs 3×10^{-4} grams.
 - 250 pumpkin seeds weigh 21 grams.
 - One sesame seed weighs 3.64×10^{-6} kilograms.

Write the three types of seed in order according to the weight of one seed.
Write the lightest type of seed first.
You must show how you decide.

.....[4]

18 Tom researches the weights of plant seeds.

- N3
- One poppy seed weighs 3×10^{-4} grams.
- N47
- 250 pumpkin seeds weigh 21 grams.
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Write the three types of seed in order according to the weight of one seed.
Write the lightest type of seed first.
You must show how you decide.

$$S = 0.00000364 \text{ kg}$$

$$1 \text{ kg} = 1000 \text{ g}$$

$$\text{Poppy} \rightarrow 0.0003 \text{ g}$$

$$\text{Pumpkin} \rightarrow 0.084 \text{ g}$$

$$\text{Sesame} \rightarrow 0.00364 \text{ g}$$

Poppy, Sesame, Pumpkin [4]
lightest

6 Write the following in order of size, smallest first.

N3

5.9

0.61

5.977

5.099

5.98

..... [2]
smallest

6 Write the following in order of size, smallest first.

N3

5.9

0.61

5.977

5.099

5.98

~~- 5.900~~

~~0.610~~

~~- 5.977~~

~~5.099~~

- 5.980

↑

0.61
smallest

5.099

5.9

5.977

5.98 [2]

5 Use one of the symbols $<$, $=$ or $>$ to make each statement true.

N46

N3 (a) $0.7 \dots\dots\dots \frac{2}{3}$ [1]

(b) $27.06 \dots\dots\dots 27.59$ [1]

5 Use one of the symbols $<$, $=$ or $>$ to make each statement true.

N46

N3

(a) $0.7 \dots\dots\dots > \dots\dots\dots \frac{2}{3}$ $0.\overline{666}$

[1]

(b) $\underline{27.06} \dots\dots\dots < \dots\dots\dots \underline{27.59}$

[1]

6 Write the following numbers in order of size, smallest first.

N3

0.529

0.54

0.51

0.502

..... , ... , ... , ...
smallest

[2]

6 Write the following numbers in order of size, smallest first.

N3

0.529

0.54

0.51

0.502

0.529

0.540

0.510 ✓

0.502 ✓

0.502 0.51 0.529 0.54
....., ...
smallest [2]

4 Use one of these symbols $<$, $>$ or $=$ to make each statement true.

N45 (a) $\frac{1}{4}$ 0.025 [1]

N3 (b) 0.304 0.34 [1]

4 Use one of these symbols $<$, $>$ or $=$ to make each statement true.

N45 (a) $\frac{1}{4}$ 0.025 [1]

N3 (b) $0.\underline{3}04$ $0.\underline{3}4$ [1]

$$\frac{1}{4} = 0.25$$

Edexcel

- 1 (a) Write the following numbers in order of size.
Start with the smallest number.

-8 2 -12 5 10

.....
(1)

- (b) Write the following numbers in order of size.
Start with the smallest number.

1.073 1.37 1.307 1.703

.....
(1)

(Total for Question 1 is 2 marks)

- 1 (a) Write the following numbers in order of size.
Start with the smallest number.

-8

2

-12

5

10

-12, -8, 2, 5, 10

(1)

- (b) Write the following numbers in order of size.
Start with the smallest number.

1.073

1.37
↑

1.307
↑

1.703

1.073, 1.307, 1.37, 1.703

(1)

(Total for Question 1 is 2 marks)

-
- 1 Write the following numbers in order of size.
Start with the smallest number.

N3

4.36

4.3

4.06

4.306

(Total for Question 1 is 1 mark)

- 1 Write the following numbers in order of size.
Start with the smallest number.

N3

4.36

4.3

4.06

4.306

4.360

4.300

4.06, 4.3, 4.306, 4.36

(Total for Question 1 is 1 mark)

4.060 ✓

4.306

2 (a) Write the following numbers in order of size.

N14 Start with the smallest number.

-6 6 -5 0 12

(1)

(b) Write the following numbers in order of size.

N3 Start with the smallest number.

0.078 0.78 0.87 0.708

(1)

2 (a) Write the following numbers in order of size.

N14 Start with the smallest number.

-6

6

-5

0

12

-6, -5, 0, 6, 12

(1)

(b) Write the following numbers in order of size.

N3 Start with the smallest number.

0.078 ✓

0.078

0.78

0.87

0.708

0.780 ✓

0.870

0.708 ✓

0.078, 0.708, 0.78, 0.87

(1)

✓

-
- 1** Write the following numbers in order of size.
Start with the smallest number.

N3

0.4

0.02

0.37

0.152

0.2

(Total for Question 1 is 1 mark)

- 1 Write the following numbers in order of size.
Start with the smallest number.

N3

0.400

0.4

0.02

0.37

0.152

0.2

✓ ~~0.020~~

~~0.370~~

~~0.152~~

~~0.200~~

0.02, 0.152, 0.2, 0.37, 0.4 ✓

(Total for Question 1 is 1 mark)

-
- 8 Write these numbers in order of size.
Start with the smallest number.

$$0.2\dot{4}\dot{6}$$

$$0.24\dot{6}$$

$$0.\dot{2}4\dot{6}$$

$$0.246$$

(Total for Question 8 is 2 marks)

- 8 Write these numbers in order of size.
Start with the smallest number.

$0.2\dot{4}\dot{6}$

$0.24\dot{6}$

$0.\dot{2}4\dot{6}$

0.246

0.2464646
0.2466666
0.246246
0.246000

① 0.246, ② 0.246, ③ 0.246
④ 0.246

(Total for Question 8 is 2 marks)

1 Write the following numbers in order of size.

N3 Start with the smallest number.

0.32

0.4

0.35

0.309

(Total for Question 1 is 1 mark)

1 Write the following numbers in order of size.

N3 Start with the smallest number.

0.320

0.400

0.350

0.309

0.32 ✓

0.4

0.35

0.309 ✓

0.309, 0.32, 0.35, 0.4

(Total for Question 1 is 1 mark)

3 Write the following numbers in order of size.

N3 Start with the smallest number.

1.02 0.12 1.20 0.21

.....

(Total for Question 3 is 1 mark)

- 3 Write the following numbers in order of size.
N3 Start with the smallest number.

1.02 0.12 1.20 0.21

0.12, 0.21, 1.02, 1.20

(Total for Question 3 is 1 mark)

AQA

12

Put these probabilities in order, starting with the least likely.

N46
N3

44%

$\frac{1}{4}$

0.404

$\frac{4}{10}$

[2 marks]

Answer _____ , _____ , _____ , _____

12

Put these probabilities in order, starting with the least likely.

smallest

N46
N3

44%

 $\frac{1}{4}$

0.404

 $\frac{4}{10}$

[2 marks]

0.44

0.25

0.404

0.4

Answer

 $\frac{1}{4}$

,

 $\frac{4}{10}$

,

0.404

,

44%

2

Circle the number **greater** than -0.9

[1 mark]

N3

N14

-0.901

-0.89

-0.91

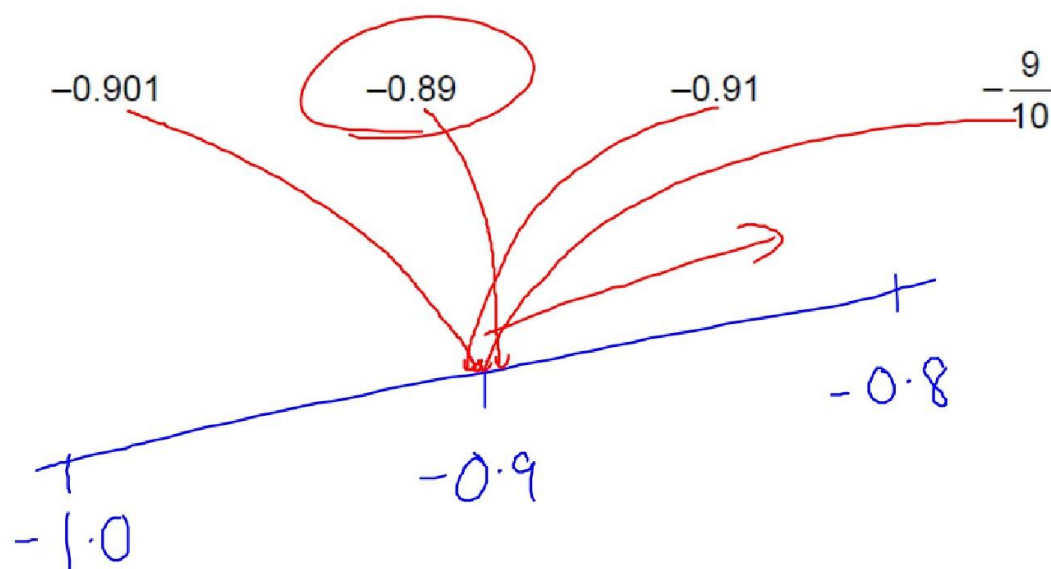
$-\frac{9}{10}$

2

Circle the number **greater** than -0.9

[1 mark]

N3
N14



1 Circle the decimal that is closest in value to $\frac{39}{800}$

N3

N46

[1 mark]

0.04

0.048

0.049

0.05

1

Circle the decimal that is closest in value to $\frac{39}{800}$

0.04875

N3

N46

[1 mark]

0.04

0.048

0.049

0.05

1 Circle the decimal that is closest in value to $\frac{11}{20}$

[1 mark]

N3

N46

0.56

0.6

0.525

0.5

1

Circle the decimal that is closest in value to $\frac{11}{20}$

0.55

[1 mark]

N3
N46

0.56

0.60
X

0.525
X

0.50
X

3

Circle the largest number.

[1 mark]

N3

$3.\dot{2}\dot{7}$

3.27

3.277

$3.20\dot{7}$

3

Circle the largest number.

[1 mark]

N3

$3.\dot{2}\dot{7}$

3.27

3.277

3.20 $\dot{7}$

3.27777

3.270

3.2770

x 3.20777

5 Put these numbers in order from smallest to largest.

N3
N46

$$\frac{31}{40}$$

$$\frac{3}{4}$$

$$\frac{7}{10}$$

0.725

[2 marks]

Smallest _____

Largest _____

5

Put these numbers in order from smallest to largest.

N3

N46

$$\frac{31}{40}$$

$$\frac{3}{4}$$

$$\frac{7}{10}$$

0.725

[2 marks]

0.7750.750.70.725

Smallest

0.70.7250.75

Largest

0.775

21

N3

N20

Write these numbers in order of size.

15.6

$3\sqrt{23}$

2.1^4

$\frac{47}{3}$

Start with the smallest.

[2 marks]

Smallest _____

Largest _____

21

N3

N20

Write these numbers in order of size.

15.6

 $3\sqrt{23}$ 2.1^4 $\frac{47}{3}$

Start with the smallest.

$$\frac{47}{3} = 15\frac{2}{3}$$

$$= 15.6666$$

$$2.1^4 = \text{ans bigger than 16}$$

$$\approx 2 \times 2 \times 2 \times 2$$

$$= 16$$

 $\sqrt{23}$ is less than 5

so 3 x less than 5

= less than 15

[2 marks]

Smallest

 $3\sqrt{23}$

15.6

 $\frac{47}{3}$ 2.1^4

Largest

3

N3

Circle the correct statement.

[1 mark]

$$0.07 \geq 0.7$$

$$0.07 = 0.7$$

$$0.07 < 0.7$$

$$0.07 > 0.7$$

3

N3

Circle the correct statement.

[1 mark]

$$0.07 \geq 0.7$$

$$0.07 = 0.7$$

$$0.07 < 0.7$$

$$0.07 > 0.7$$

2

N3

Circle the largest number.

[1 mark]

4.5061

4.5

4.516

4.56

2

N3

Circle the largest number.

[1 mark]

4.5061

4.5

4.516

4.56

2

N3

Circle the largest number.

[1 mark]

$0.\dot{5}$

0.55

0.545

$0.5\dot{4}\dot{5}$

2

N3

Circle the largest number.

[1 mark]

$0.\dot{5}$

0.55

0.545

$0.5\dot{4}\dot{5}$

0.5555

0.54545

1

N3

Circle the smallest number.

4.31

4. $\dot{3}$

4.301

4.33

H

[1 mark]



1

N3

Circle the smallest number.

4.31

4. $\dot{3}$

4.301

4.33

H

[1 mark]

