

Place Value

PS Problem-solving questions

Challenge 1

1 Write these numbers in order from the smallest to the largest.

252

525

22 552

5525

2552

Smallest

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Largest



1 mark

PS 2 What are the missing numbers in this sequence?

679

779

979



2 marks

3 Write the following number in figures.

four hundred and seventy five thousand six hundred and two



1 mark

Marks..... /4

Challenge 2

1 Draw **two more** lines to match **32 000** to numbers with the same value.

32 000 → 320 tens
32 000 units
3200 tens
320 hundreds
3 thousands



2 marks

2 Use > and < to make these statements correct.

a) 126.2 162.2

b) 166 434 163 343

c) 5.564 5.654

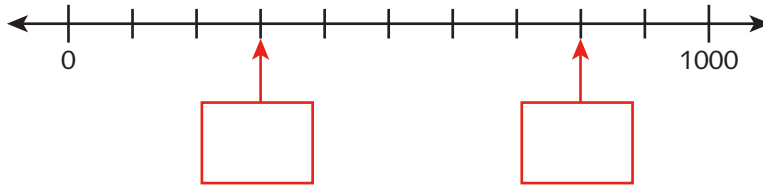
d) 257 979 259 779



3 marks

Place Value

PS 3 Fill in the boxes on the number line.



2 marks

Marks..... /7

Challenge 3

PS 1 Write these numbers in order from smallest to largest.



Smallest

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Largest

1 mark

PS 2 What are the next three terms in the sequence?

27	29	51			
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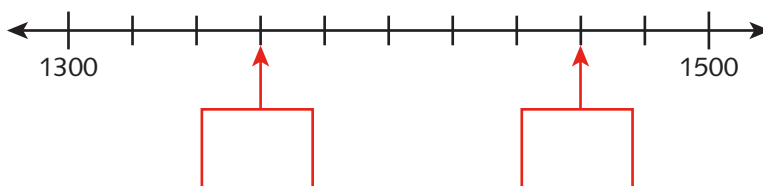
3 marks

PS 3 What is the missing middle number in this sequence?

126		192
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1 mark

PS 4 Fill in the empty boxes in the number line.



2 marks

5 Circle the number(s) that contain 32 thousands.

45 329	132 567	56 321.8	432 761.52
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1 mark

Marks..... /8

Total marks /19

How am I doing?



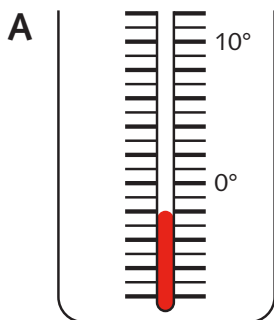
Negative Numbers

PS Problem-solving questions

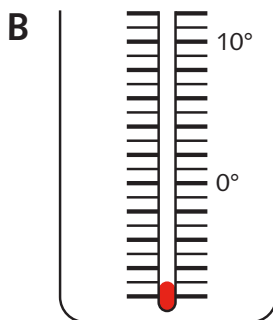
Challenge 1

1 Look at the thermometers below.

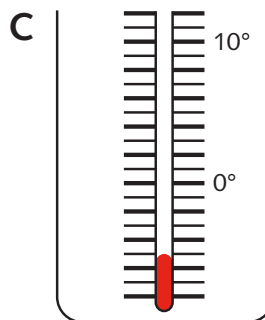
a) What are the readings on these thermometers?



_____ °C



_____ °C



_____ °C

b) Temperature **A** increases by 5°C. What temperature will the thermometer read now? _____ °C

c) What is the temperature difference between thermometers **B** and **C**? _____ °C

d) During the night temperature **B** drops by 10°C. What temperature will the thermometer read now? _____ °C

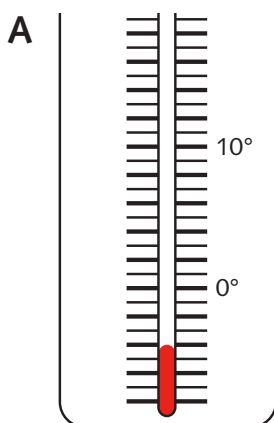
6 marks

Marks..... /6

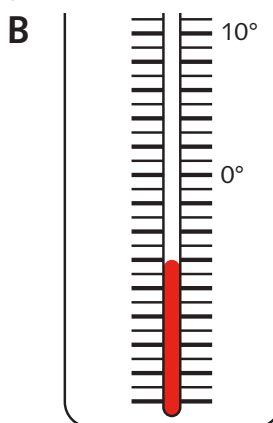
Challenge 2

1 Look at the thermometers below.

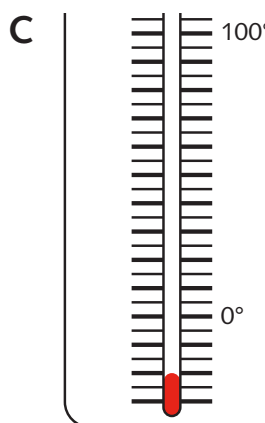
a) What are the readings on these thermometers?



_____ °C



_____ °C



_____ °C

Negative Numbers

- b) Between which two thermometers is the biggest temperature difference?

Thermometers _____ and _____



4 marks

Marks..... /4

Challenge 3

- PS 1 This sequence is made by **subtracting the same amount** each time. What are the three missing numbers in the sequence?

13 -19



3 marks

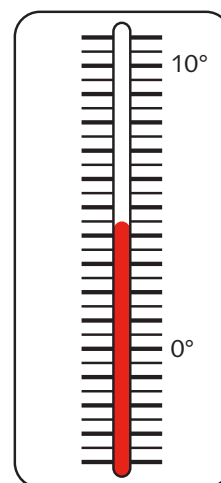
- 2 Look at this thermometer.

- a) What is the temperature shown on the thermometer? _____ °C

- b) The temperature decreases by 8°C.

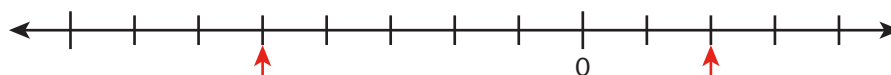
Mark the new temperature on the thermometer.

- c) What is the new temperature? _____ °C



3 marks

- PS 3 The temperature difference between A and B is 35°C. What is the temperature at A and B?



A

B

A _____ °C

B _____ °C



2 marks

Marks..... /8

Total marks /18

How am I doing?



Rounding

Challenge 1

- 1 Round these numbers to the nearest hundred. The first one has been done for you.

376	400
2458	
3712	
2501	
2555	



4 marks

- 2 Circle all the numbers that would give 500 when rounded to the nearest 100.

512	426	459	481	596	557
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1 mark

- 3 Round 27 163 to the nearest...

a) 100 _____ b) 1000 _____ c) 10000 _____

3 marks

- 4 Circle the number that when rounded is nearest to 1000.

1935	901	1999	905	100	950
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1 mark

- 5 What is $112 + 65$, rounded to the nearest 100? _____

1 mark

Marks..... /10

Challenge 2

- 1 Round these decimals to the nearest whole number. The first one has been done for you.

4.20	4
5.05	
1.78	
3.19	
3.65	



4 marks

Rounding

2 What is $2211 + 435$ rounded to the nearest 1000? _____



3 Round 561 728 to the nearest thousand. _____



4 I think of an odd number between 20 and 26. I multiply it by 10 and round it to the nearest 100. My answer is 300.



What is my original number? _____

Marks..... /7

Challenge 3

1 I need to multiply 48×33 . Circle the rounded calculation that will best help me solve my problem.

50 x 40

40 x 30

50 x 30

45 x 35



2 Round 816539 to the nearest ten thousand. _____



3 These numbers have been rounded to the nearest one decimal place. Draw lines to match them to their correct rounded equivalent. One has been done for you

2.09	4.6
3.68	3.7
4.09	2.1
3.55	3.6
4.59	4.1



4 Circle the number that is nearest to 0.09.

0.951

0.099

0.95

0.010



Marks..... /7

Total marks /24

How am I doing?



Number Problems

PS Problem-solving questions

Challenge 1

1 What are the number bonds to 50 for these numbers?

a) 28 b) 34 c) 22

3 marks

2 Answer these.

a) $65 + 19 =$

b) $33 - 9 =$

c) $79 + 7 =$



3 marks

3 Find the missing numbers.

a) $75 +$ $= 125$

b) $100 - 19 =$

c) $175 -$ $= 90$

d) $94 + 56 =$

e) $51 +$ $= 29$

f) $120 -$ $= 60$

6 marks

Marks...../12

Challenge 2

1 What are the number bonds to 100 for these numbers?

a) 28 b) 74 c) 17

3 marks

2 Answer these.

a) $299 + 53 =$

b) $101 - 75 =$

c) $502 - 61 =$



3 marks

Number Problems

3 Find the missing numbers.

a) $57 + \square = 120$

b) $450 - 139 = \square$

c) $235 - \square = 190$

d) $365 - 127 = \square$

e) $117 + 96 = \square$

f) $341 + \square = 420$



6 marks

Marks...../12

Challenge 3

1 What are the number bonds to 1000 for these numbers?

a) $325 + \square = 1000$

b) $811 + \square = 1000$

c) $493 + \square = 1000$



3 marks

2 a) $465 + 59 = \square$

b) $199 - 175 = \square$

c) $1999 + 78 = \square$



3 marks

3 Find the missing numbers.

a) $203 + \square = 417$

b) $211 - 139 = \square$

c) $239 - \square = 121$

d) $283 + 157 = \square$

e) $437 - \square = 96$

f) $127 + \square = 476$



6 marks

PS **4** I celebrate my 21st birthday in 2003. In what year was I born?



1 mark

Marks...../13

Total marks/37

How am I doing?

