Numbers: Animal Maths

NAME: ....

CLASS: ....

DATE: ....

Basic

1) Select five different single digits. Using all five digits only once, arrange them to make the following (if possible):

a) largest possible number

b) smallest possible number

c) number nearest to 75,000

d) largest even number

e) smallest even number

f) largest odd number

g) smallest odd number

h) largest square number

2) Place the following numbers in order of size from the smallest to the largest:

a) 145; 32; 124; 654; 987

b) 92; 21; 654; 999; 1025; 325

c) 2145; 3254; 3214; 245; 145

d) 214; 19,012; 2457; 3215; 10,125

e) 99,999; 9999; 100,002; 5457; 325

3) Give the next three terms in the following number sequences:

a) 2, 4, 7, 11, 16,

b) 1, 4, 9, 16, 25,

c) 2, 4, 8, 16, 32,

d) 800, 400, 200, 100,

e) 4, 12, 36, 108,

f) 1, 1, 2, 3, 5, 8,

Basic

4) Give the next three temperatures in the following sequences:

a) 3°, 2°, 1°, 0°, -1°,

b) 6°, 4°, 2°, 0°, -2°,

c) 5°, 3°, 1°, -1°, -3°,

d) -4°, -2°, 0°, 2°, 4°,

5) Put these temperatures in order, **coldest** first:

a) -6°C, 5°C, -8°C, 0°C, 1°C

b) -1°C, -2°C, 3°C, 4°C, 10°C

c) -5°C, 3°C, -7°C, 6°C, -10°C

d) 8°C, -2°C, -6°C, 9°C, 8°C

6) Put these temperatures in order, **warmest** first:

a) 4°C, -1°C, 9°C, -5°C, 11°C

b) 3°C, -10°C, 8°C, -4°C, 2°C

c) 9°C, -4°C, -3°C, 6°C, -12°C

d) 7°C, 4°C, -2°C, 12°C, 0°C

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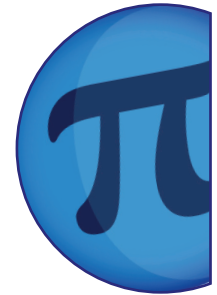
Core

1) Put these temperatures in order, **coldest** first:

a) -6°C, 5°C, -8°C, 0°C, 1°C

b) -1°C, -2°C, 3°C, 4°C, 10°C

c) -5°C, 3°C, -7°C, 6°C, -10°C

d) 8°C, -2°C, -6°C, 9°C, 8°C

2) Put these temperatures in order, **warmest** first:

a) 4°C, -1°C, 9°C, -5°C, 11°C

b) 3°C, -10°C, 8°C, -4°C, 2°C

c) 9°C, -4°C, -3°C, 6°C, -12°C

d) 7°C, 4°C, -2°C, 12°C, 0°C

3) What will the temperature be if it:

a) starts at -4° and rises 7°?

b) starts at -8° and rises 8°?

c) starts at 5° and falls 9°?

d) starts at -2° and falls 3°?

e) starts at -6° and rises 4°?

f) starts at 0° and falls 4°?

Core

4) Which of these statements is true and which is false?

a) -8°C<-3°C

b) -4°C>-4°C

c) 6°C>-4°C

d) -30°C<-10°C

e) -100°C>-40°C

f) 25°C<20°C

5) Calculate the answers to the following:

a) -7 + 4

b) -3 + 7

c) -4 + 8

d) -7 + 10

e) -1 + 4

f) 3 – 5

g) -2 – 9

h) 12 – 13

6) a) The temperature at midnight is -3°C. The temperature at noon is 10°C. By how many degrees does the temperature rise?

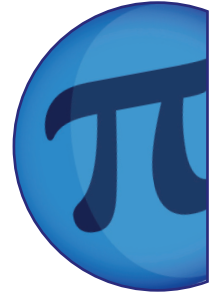b) The temperature at noon is 7°C. The temperature at midnight is -8°C. By how many degrees does the temperature fall?

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Advanced

1) Which of these statements is true and which is false?

a) -8°C<-3°C

b) -4°C >-4°C

c) 6°C>-4°C

d) -30°C<-10°C

e) -100°C>-40°C

f) 25°C<20°C

2) Calculate the answers to the following:

a) -7 + 4

b) -3 + 7

c) -4 + 8

d) -7 + 10

e) -1 + 4

f) 3 – 5

g) -2 – 9

h) 12 – 13

3) a) The temperature at midnight is -3°C. The temperature at noon is 10°C. By how many degrees does the temperature rise?

b) The temperature at noon is 7°C. The temperature at midnight is -8°C. By how many degrees does the temperature fall?

Advanced

4) Calculate the answers to the following:

a) -3 + -5   b) -7 + -1   c) 10 + -6   d) 2 + -3

e) -10 + -1   f) 6 + -6   g) 15 + -1   h) 7 + -10

5) Calculate the answers to the following:

a) -7 – -3   b) -3 – -4   c) 9 – -2   d) 10 – -7

e) -2 – -10   f) -4 – -5   g) 0 – -2   h) 5 – -3

ANSWERS

Basic

2) a) 32; 124; 145; 654; 987   b) 21; 92; 325; 654; 999; 1025

  c) 145; 245; 2145; 3214; 3254   d) 214; 2457; 3215; 10,125; 19,012

  e) 325; 5457; 9999; 99,999; 100,002

3) a) 22, 29, 37   b) 36, 49, 64   c) 64, 128, 256

  d) 50, 25, 12.5   e) 324, 972, 2916   f) 13, 21, 34

4) a) -2°, -3°, -4°   b) -4°, -6°, -8°

  c) -5°, -7°, -9°   d) 6°, 8°, 10°

5) a) -8°, -6°, 0°, 1°, 5°   b) -2°, -1°, 3°, 4°, 10°

  c) -10°, -7°, -5°, 3°, 6°   d) -6°, -2°, 8°, 8°, 9°

6) a) 11°, 9°, 4°, -1°, -5°   b) 8°, 3°, 2°, -4°, -10°

  c) 9°, 6°, -3°, -4°, -12°   d) 12°, 7°, 4°, 0°, -2°

Core

1 a) -8°, -6°, 0°, 1°, 5°   b) -2°, -1°, 3°, 4°, 10°

  c) -10°, -7°, -5°, 3°, 6°   d) -6°, -2°, 8°, 8°, 9°

2) a) 11°, 9°, 4°, -1°, -5°   b) 8°, 3°, 2°, -4°, -10°

  c) 9°, 6°, -3°, -4°, -12°   d) 12°, 7°, 4°, 0°, -2°

3) a) 3   b) 0   c) -4   d) -5   e) -2   f) -4

4) a) True   b) False   c) True   d) True   e) False   f) False

5) a) -3   b) 4   c) 4   d) 3   e) 3   f) -2   g) -11   h) -1

6) a) 13°   b) 15°

Advanced

1) a) True   b) False   c) True   d) True   e) False   f) False

2) a) -3   b) 4   c) 4   d) 3   e) 3   f) -2   g) -11   h) -1

3) a) 13°   b) 15°

4) a) -8   b) -8   c) 4   d) -1   e) -11   f) 0   g) 14   h) -3

5) a) -4   b) 1   c) 11   d) 17   e) 8   f) 1   g) 2   h) 8