Negative Numbers

1. Work out the answers to the calculations below and place them in the correct columns.

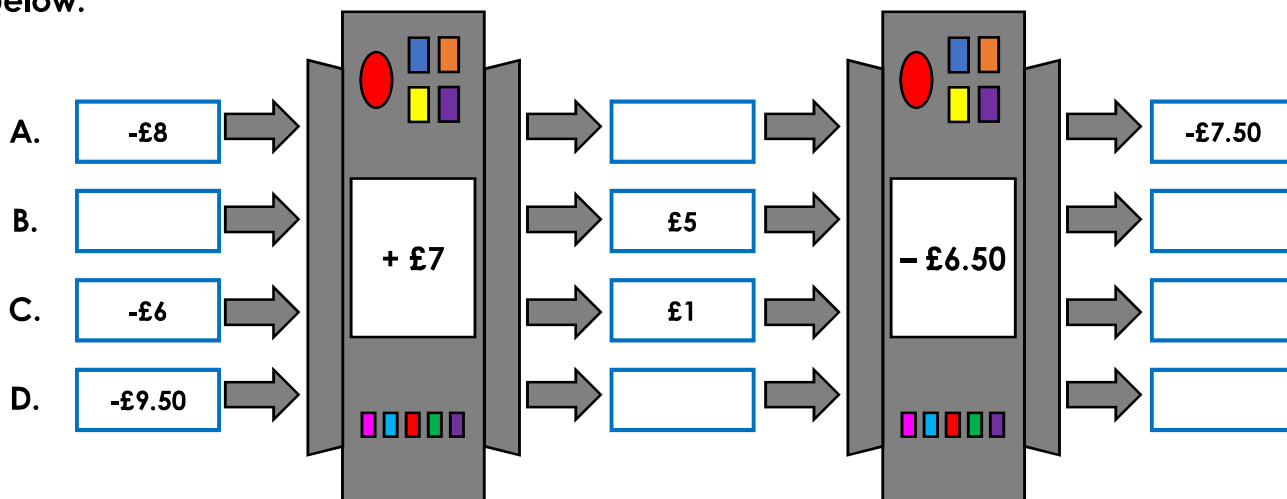| -3 + 9 | -10 – 16 | 7 – -9 |

| 3 + -12 | -17 + -2 | -9 + -4 |

-10 or below	Between 0 and -10	0 or above

2. A bank has installed some function machines. Find the missing amounts of money below.

A. -£8 → + £7 → [ ] → − £6.50 → -£7.50

B. [ ] → + £7 → £5 → − £6.50 → [ ]

C. -£6 → + £7 → £1 → − £6.50 → [ ]

D. -£9.50 → + £7 → [ ] → − £6.50 → [ ]

3. Dr Banner is trying to get a mixture to reach a temperature between 5°C and 12°C. Is he correct? Find combinations to prove your answer.

> My mixture is currently at -17°C. I can reach a desired temperature by adding 3 chemicals to it.

Chemical A	Chemical B	Chemical C	Chemical D	Chemical E	Chemical F
+ 2°C	+ 11°C	+ 7°C	+ 4°C	+ 13°C	+ 9°C

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2

Compare and Order

Tarquin is looking to purchase a yacht to add to his collection.

A.

£ 987,641

B.

£ 2,346,725

C.

£ 5,675,899

D.

£ 1,348,009

E.

£ 700,989

F.

£ 3,732,500

G.

£ 4,708,210

H.

£ 1,000,009

Investigate the different number statements you can create using the inequality symbols below.

	<		>	

	>		>	

	<		>	

	>		<	

	<		>	

	<		>	

	<		>	

Order the prices of the boats in descending order.

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Rounding Numbers

1. Circle the options that show what the number in the place value chart will be when it is rounded to the nearest ten thousand and nearest hundred thousand.

Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
● ●	● ● ● ● ●	●	● ● ● ● ● ● ●	● ● ●		● ● ● ● ● ●

2,620,000

Two million, six hundred and ten thousand

Two million, six hundred thousand

2,700,000

2. Use each digit card once to complete both statements.

8   7

5

0   4

3 , 0 ☐ 2 , 5 0 8
rounded to the nearest ten thousand is three million

8 , ☐ ☐ 3 , 2 1 1
rounded to the nearest hundred thousand is
☐ , ☐ 0 0 , 0 0 0

3. Abigail is thinking of a number. She puts it in these function machines. What could Abigail's number be?

My number has 7 digits, but only one of the digits is even.
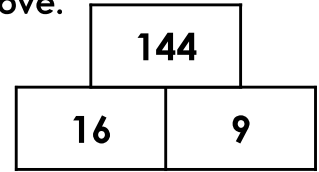
?

nearest 1,000,000   7,000,000

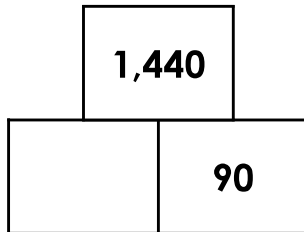nearest 100,000   7,500,000

nearest 10,000   7,500,000

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4

Reason from Known Facts
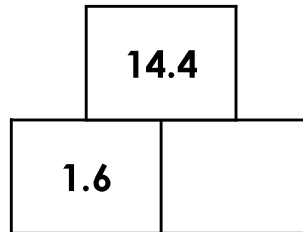
1. In this tower, two numbers are multiplied to give the number above. Use the known fact to help you complete the other towers.
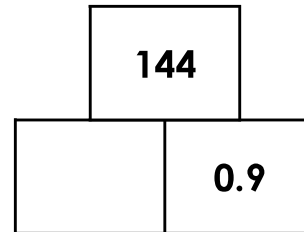
144

16	9

A.

1,440

	90

B.

14.4

1.6	

C.

144

	0.9

2. Circle all of the calculations that are true. Use the known fact to help you.

$$3,472 \div 14 = 248$$

A. $248 \times 14 = 3,472$

B. $248 \times 15 = 3,720$

C. $3,472 \div 1.4 = 24.8$

D. $13 \times 248 = 3,224$

E. $3,472 \div 140 = 24.8$

F. $2,480 \times 1.4 = 347. 2$

3. Emma's sunflower grows 3.5mm each day. After 7 days her sunflower is 24.5mm tall.

A. How tall is the sunflower after 8 days?

B. How tall was the sunflower after 80 days?

C. Emma's sunflower is now 245mm tall. How many days has it been growing for?

D. Ben feeds his sunflower with plant food. Ben's sunflower is 2,450mm tall after 70 days. How much did it grow each day?