Home Learning Pack

Year 6

Week 1
20/04/2020

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Negative Numbers

1. Work out the answers to the calculations below and place them in the correct columns.
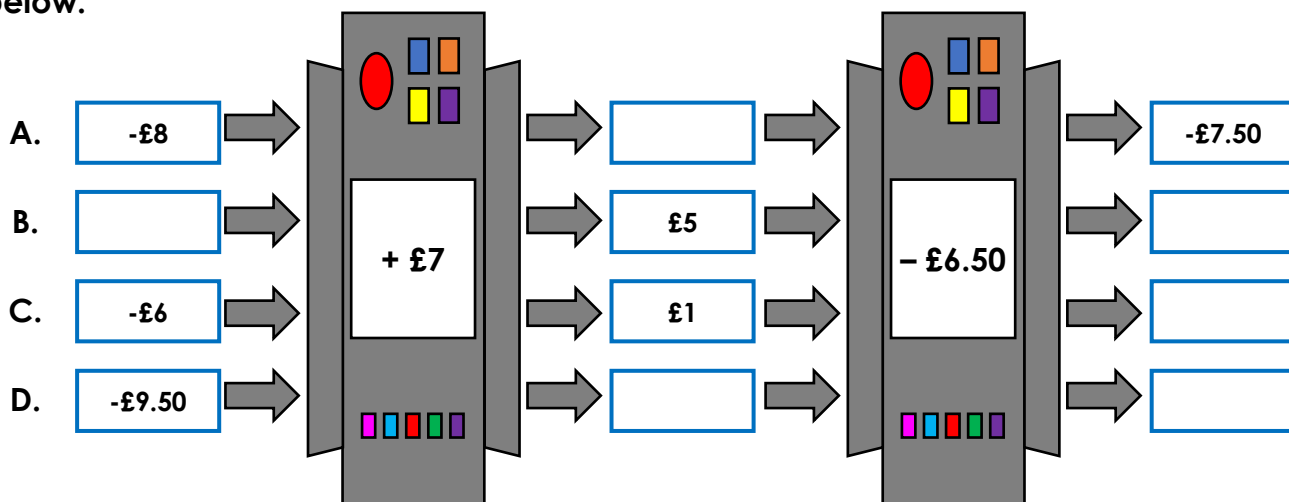
-3 + 9	-10 – 16	7 – -9

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.

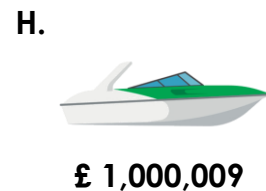My mixture is currently at -17°C. I can reach a desired temperature by adding 3 chemicals to it.

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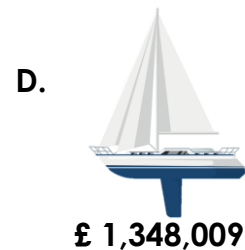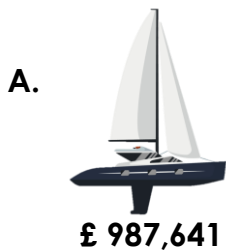
Investigate the different number statements you can create using the inequality symbols below.

	<		>	

	>		>	

	<		>	

	>		<	

	<		>	

	<		>	

	<		>	

Order the prices of the boats in descending order.

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.

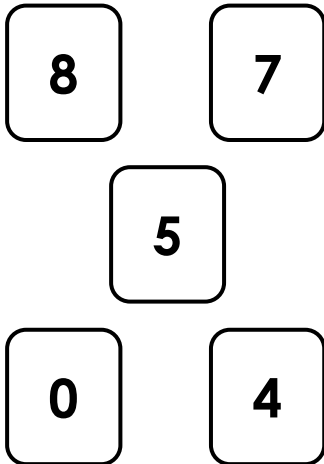| Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
●●	●●● ●●● ●●	●	●●● ●●● ●●● ●	●● ●		●● ●● ●●

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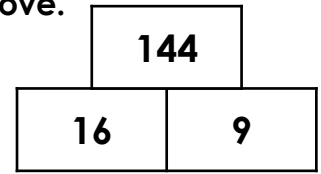
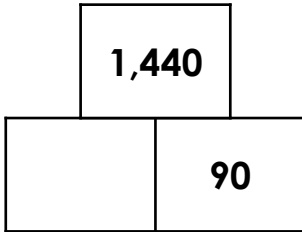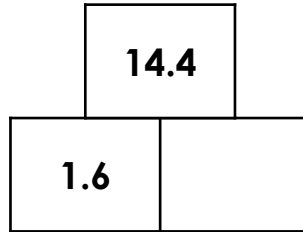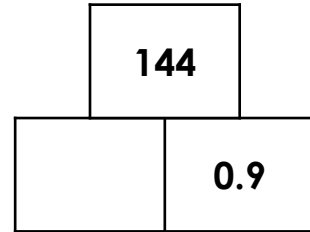2. Circle all of the calculations that are true. Use the known fact to help you.

3,472 ÷ 14 = 248

A. 248 x 14 = 3,472

B. 248 x 15 = 3,720

C. 3,472 ÷ 1.4 = 24.8

D. 13 x 248 = 3,224

E. 3,472 ÷ 140 = 24.8

F. 2,480 x 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?

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5

Relative Clauses

1. Mark with an 'x' the box in each sentence below that indicates the relative pronoun.

A. This is Martha, whose bike I borrowed the other day.

☐ ☐ ☐

B. Oscar's the boy who's going to help me finish my project.

☐ ☐ ☐

C. London, which is in England, has a population of almost nine million people.

☐ ☐ ☐

2. List all of the sentences that have correctly included a relative clause.

A. Hitesh, whose job it is to tidy the cloakroom, is poorly today.
B. The bridge, who was very old, was the first iron bridge in the world.
C. He would never forget the day World War II began.
D I'd like to show you the house where I spent the first ten years of my life.
E. That's the boy who lives down the road from me.

_____

3. Add your own relative clauses to the sentences below. Include the relative pronouns who, which, that, whose, where or when.

A. Do you know the boy _____?

B. Hannah lives in Halifax _____ .

C. He was the pop star _____ .

D. The restaurant _____ was fully booked.

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Modal Verbs

1. Choose three modal verbs from the list below that could complete the sentence to show the three varying degrees of possibility indicated by the line.

If it is raining in the morning, I _____ go for a run in the woods.

1   **2**   **3**

Most likely   Least likely

| should | might | will | may | could |

2. Shona is using modal verbs to give advice. Identify three modal verbs she could use to complete her sentence.

Now that you are in Year 6, you _____ make sure that you are working as hard as you can because it is a very important year.

| should | can | must | ought to | might | could |

3. Use the modal verbs below to create three sentences. Each sentence must include a subordinate clause and two modal verbs.

| shall | have to | likely to |
| might | should | can |

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7

Adverbs

1. Underline two sentences below that have correctly used one or two adverbs to show degrees of possibility.

    A.   Kevin had successfully completed an escape room before, so he was going to be able to complete surely this one as well.

    B.   Although he was obviously tired, Tom had decided that he was definitely going to meet up with his friends after work.

    C.   Cai had spent too much money already to be able to afford to go out for the evening meal maybe.

    D.   It was unlikely that Ryan was going to make it in time for work, despite the fact he had set multiple alarms the previous night.

---

2. Circle two adverbs that can be used to complete the sentence below. Both adverbs should indicate the same degree of possibility.

unlikely	definitely
undoubtedly	perhaps

Owing to the beautiful weather, Imogen was _____ going to go scuba-diving with her friend at the weekend.

---

3. Jodie has written the sentence below.

> Regardless of the danger that he certainly would be in, the brave knight continued on his quest.

Rewrite Jodie's sentence using a different adverb and place it in a different position in the sentence so that it still reads correctly.

Your adverb should also change the degree of possibility.

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