

Name:

# New Horizons Home Learning Term 1



Every completed activity worth a raffle ticket!

Hand in by Friday 19<sup>th</sup> October

# HOCKEY

Missing Words-Fill in the blanks.

**Puck Indian Face off Field**

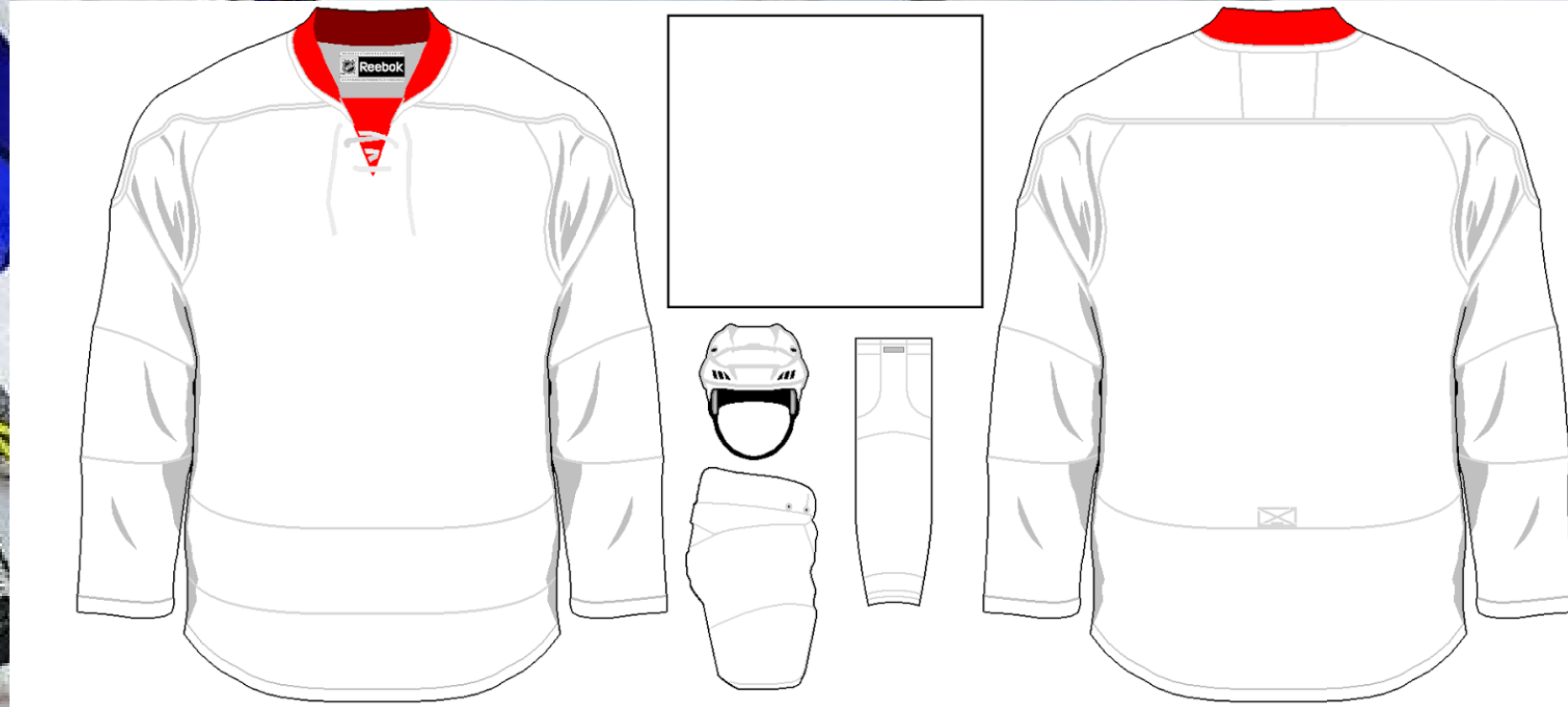
**USA Loose Two Goal**

**Straight Canada Gum Shield**

Most Hockey matches consist of \_\_\_\_\_ teams. To score points you must get the \_\_\_\_\_ in the opponents \_\_\_\_\_. At the start of the game a \_\_\_\_\_ from each team takes part in a \_\_\_\_\_. The 3 main types of dribbles in Hockey are, \_\_\_\_\_ dribble, \_\_\_\_\_ dribble & \_\_\_\_\_ dribble.

Hockey players wear a \_\_\_\_\_ to protect their teeth during games. The two main types of Hockey are, \_\_\_\_\_ Hockey & \_\_\_\_\_ Hockey. Hockey is played all over the world but is most common in \_\_\_\_\_ & \_\_\_\_\_.

**Design your own Hockey Jersey and create your own logo/badge for the team in the box provided .**

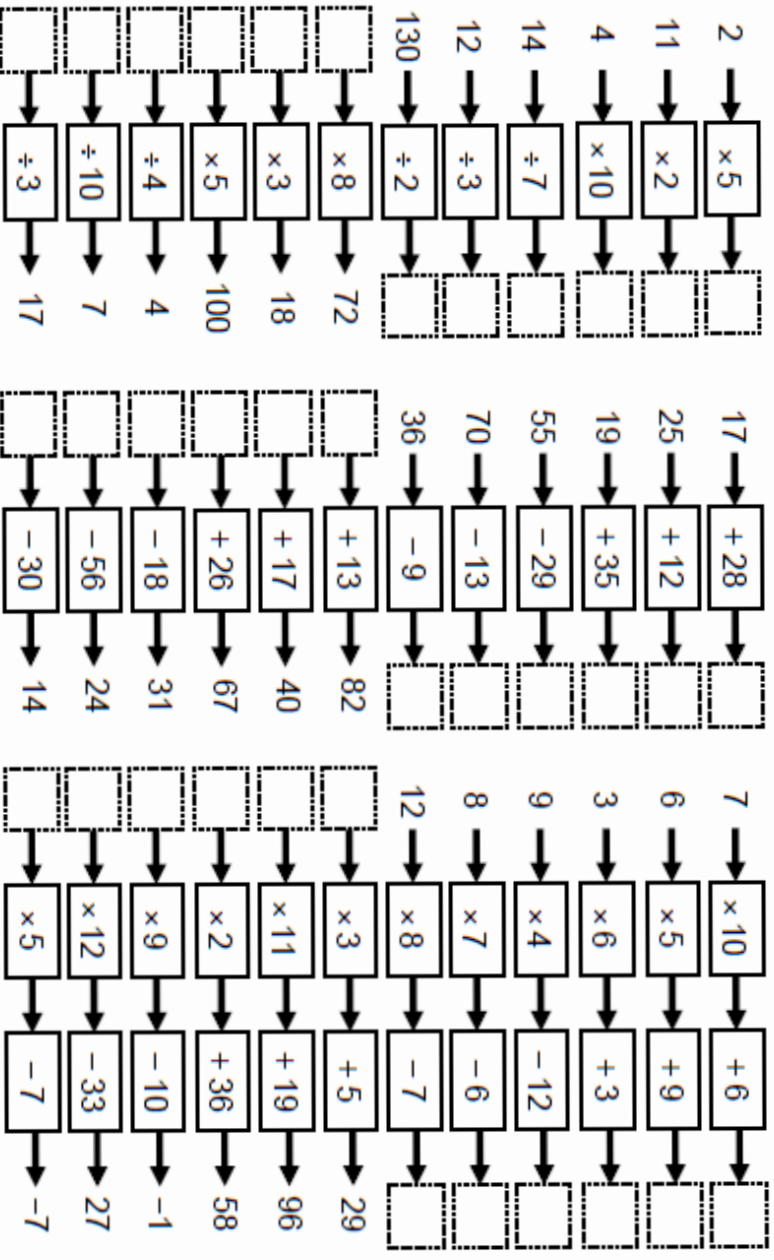


# Function Machines: The Secret Code!

Calculate the missing outputs and inputs from the function machines below.

For each of your answers, shade the corresponding number on the grid below to reveal the secret code.

The secret code includes letters and numbers.



4	39	24	57	73	41	5	0	51	60	76	11	45	6
33	25	53	16	17	80	13	12	20	42	58	56	30	21
35	32	43	8	52	9	89	7	50	48	40	44	27	70
28	18	46	37	78	22	34	19	26	55	69	14	31	15
29	36	59	10	90	54	38	47	65	3	1	49	23	2

# Maths: Key Stage 4

Ayesha and Zain are both getting a bus at 10:00am.

Ayesha's bus arrives every 16 minutes.

Zain's bus arrives every 14 minutes.

What is the next time they could have both caught the bus?

**(3 marks)**

Lucy and Ben are both getting a bus at 9:00am.

Lucy's bus arrives every 12 minutes.

Ben's bus arrives every 9 minutes.

What is the next time they could have both caught the bus?

**(3 marks)**

3. Here is a list of numbers

6                    8                    11                    15                    25                    28                    30                    3

From this list, write down

(a) a multiple of 7,

(b) the two factors of 24,

(c) a square number,

(d) a prime number.

**(4 marks)**

4. This is a page from Zoe's exercise book.

$$\begin{aligned}2^3 - 1^3 &= 7 \text{ (prime)} \\3^3 - 2^3 &= 19 \text{ (prime)} \\4^3 - 3^3 &= 37 \text{ (prime)}\end{aligned}$$

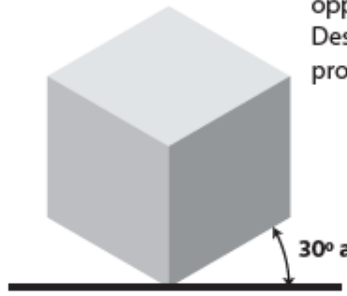
The difference between consecutive cube numbers is always a prime number.

Give a counter example to show that Zoe is wrong. Justify your answer.

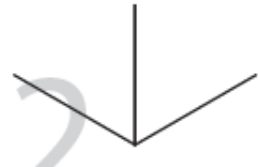
# ISOMETRIC PROJECTION

Isometric drawing is another way of presenting designs/drawings in three dimensions. The example opposite has been drawn with a 30 degree set square. Designs are always drawn at 30 degrees in isometric projection.

Name:.....



1 Start by drawing a straight vertical line



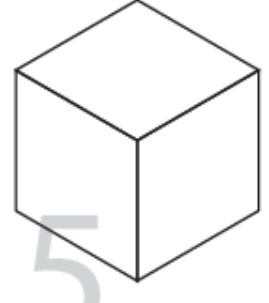
2 Draw the 2 base lines at a 30° angle



3 Parallel to those draw 2 more 30° angle lines

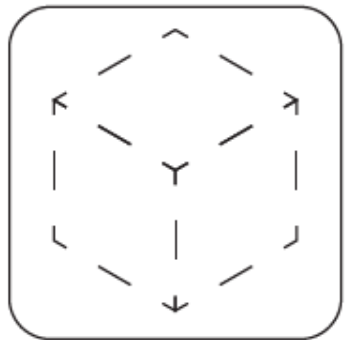


4 Connect the angled lines with 2 straight vertical lines

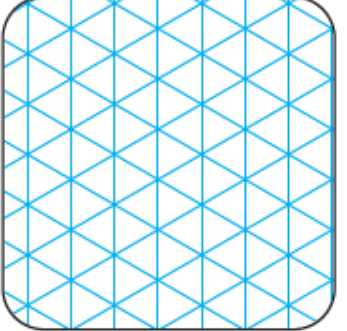


5 Draw 2 final 30° lines to connect to box up

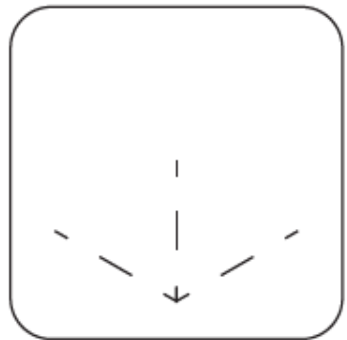
Draw over the dotted line to complete the cube



Use the Isometric grid to draw an Isometric cube



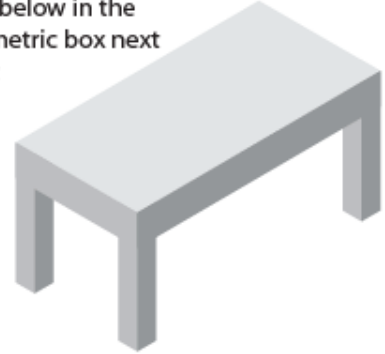
Draw on the missing lines to create an Isometric cube



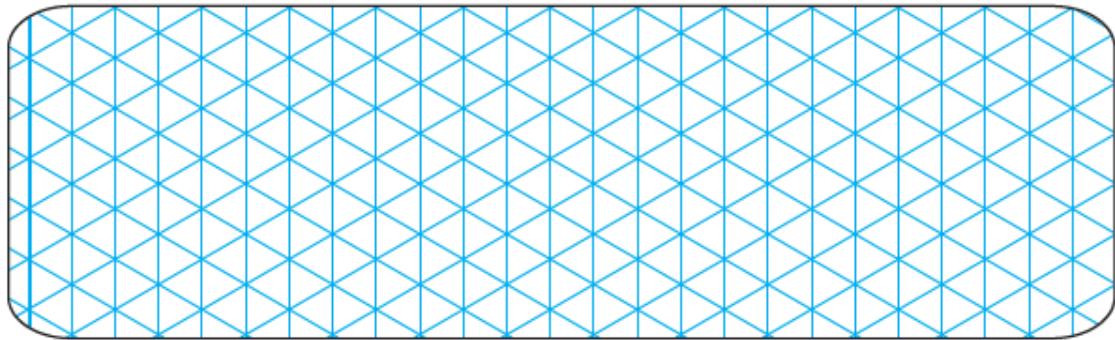
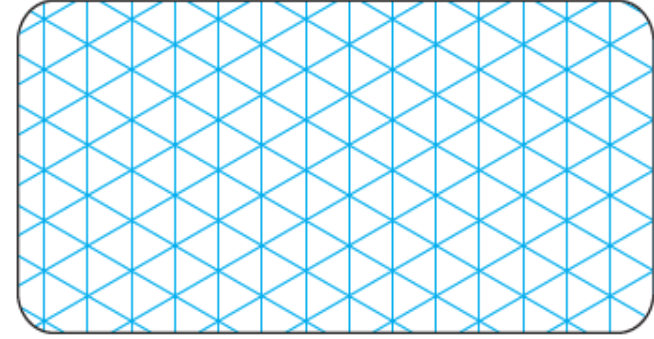
Draw an Isometric cube free hand



Draw the table you see below in the Isometric box next to it



Using the Isometric box below try and write your name using Isometric Projection



# Your Artists, Your Songs!

Write a list of your 5 favourite musicians, and your favourite song or lyrics by them.

Artist	Song/Lyrics

# Food

Key Stage 3:

Describe in detail the effects of malnutrition on the body make reference to diseases and affects of organs etc.

Key Stage 4:

Write a menu for a sporting activity of your choice. Then write a full paragraph Justify the choices within your menu.





## English: Key Stage 4

Choose your favourite place, real or imaginary, and describe it in 300 words.

A large rectangular area with a light gray background and horizontal lines, intended for writing the response.