

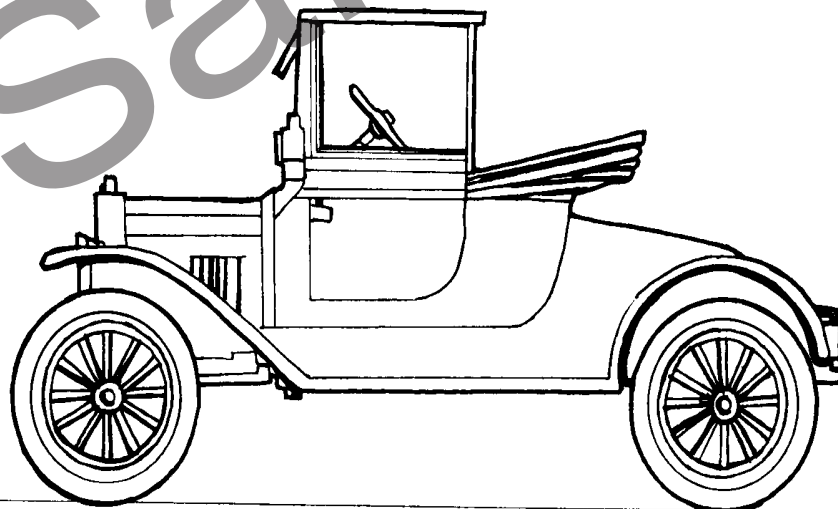
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Transport

Book 2

Activities for 8-10 yrs



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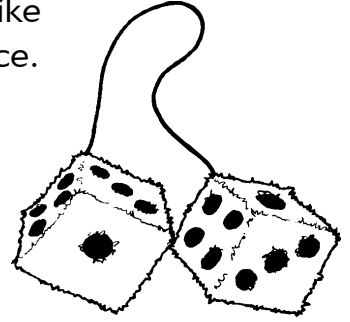
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Fluffy Dice

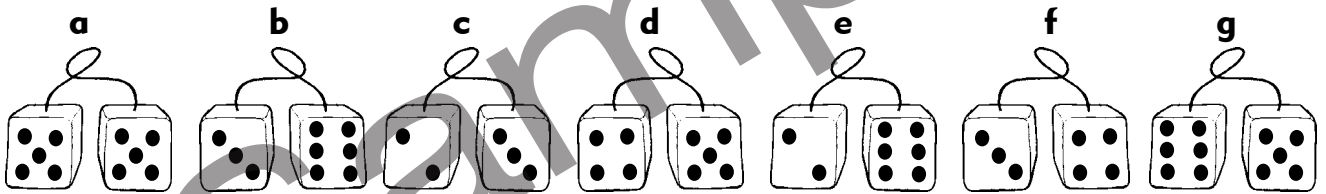
Just as people like to decorate their houses, some people like to decorate the inside of their cars with things like fluffy dice. What other objects do people use to decorate their car?

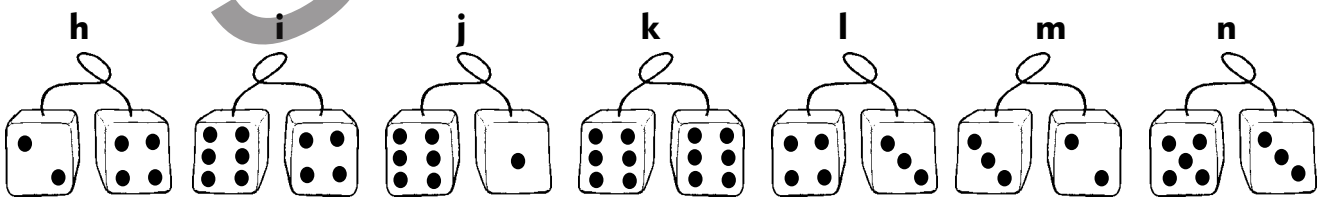


Multiply the faces of the dice together to discover the answer to the joke below. Find the answers in the code below and then write them in the correct space: What happened to the wooden car with the wooden engine and the wooden wheels?

a b c d e f g h i j k l m n

1	2	3	4	5	6	8	9	10	12	14	15	16	18
J	A	M	U	F	blank	E	Q	Z	O	H	!	R	T
20	21	22	24	25	26	27	28	30	32	33	34	35	36
W	C	B	N	I	V	L	Y	D	X	K	S	P	G



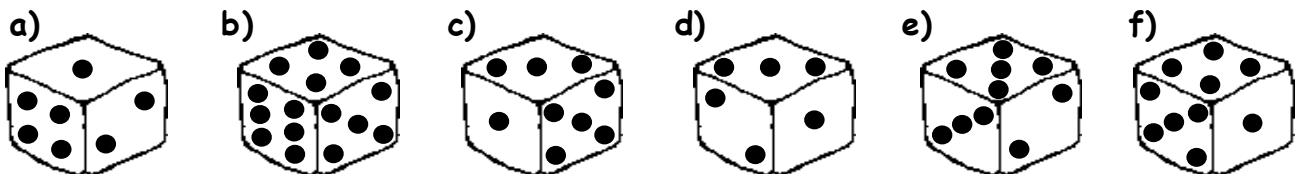


Complete the following.

What type of shape best describes a dice? _____

It has _____ sides. It has _____ edges. It has _____ vertices.

If the *opposite* sides of a dice always add to 7, then colour the mistake below.

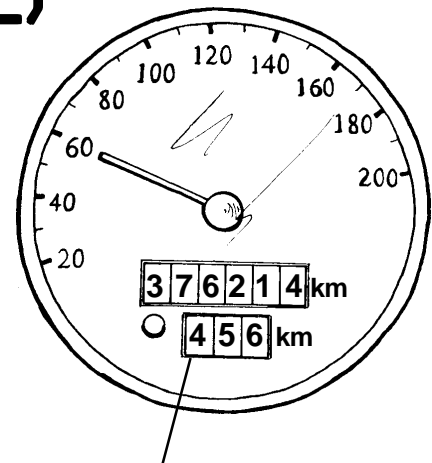


Odometers (2)

Odometers measure the total distance a vehicle has travelled. Some vehicles also have *trip odometers* which can be used to measure the distance of an individual journey.

Even if you don't have a trip odometer, it is easy to calculate how far your vehicle has gone by subtracting the odometer reading at the start of your trip (*initial reading*) from the reading you have when you arrive at your destination (*final reading*).

$$\begin{array}{r} \text{e.g. Final reading:} \quad 234898 \text{ km} \\ \text{Initial reading:} \quad - 234667 \text{ km} \\ \hline \text{Distance:} \quad \quad \quad 231 \text{ km} \end{array}$$



trip odometer
(pressing the button will reset it to 0)

Fill in the boxes to show how far the vehicles have gone.

$$\begin{array}{r} 1) \text{ Final reading} \quad 000268 \\ \text{Initial reading} \quad 000152 \\ \text{Distance} \quad \quad \quad \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{} \text{ km} \end{array}$$

$$\begin{array}{r} 2) \text{ Final reading} \quad 602596 \\ \text{Initial reading} \quad 602353 \\ \text{Distance} \quad \quad \quad \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{} \text{ km} \end{array}$$

$$\begin{array}{r} 3) \text{ Final reading} \quad 511345 \\ \text{Initial reading} \quad 511236 \\ \text{Distance} \quad \quad \quad \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{} \text{ km} \end{array}$$

$$\begin{array}{r} 4) \text{ Final reading} \quad 253173 \\ \text{Initial reading} \quad 253164 \\ \text{Distance} \quad \quad \quad \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{} \text{ km} \end{array}$$

$$\begin{array}{r} 5) \text{ Final reading} \quad 023576 \\ \text{Initial reading} \quad 022458 \\ \text{Distance} \quad \quad \quad \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{} \text{ km} \end{array}$$

$$\begin{array}{r} 6) \text{ Final reading} \quad 043864 \\ \text{Initial reading} \quad 043349 \\ \text{Distance} \quad \quad \quad \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{} \text{ km} \end{array}$$

$$\begin{array}{r} 7) \text{ Final reading} \quad 520357 \\ \text{Initial reading} \quad 510269 \\ \text{Distance} \quad \quad \quad \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{} \text{ km} \end{array}$$

$$\begin{array}{r} 8) \text{ Final reading} \quad 262531 \\ \text{Initial reading} \quad 250437 \\ \text{Distance} \quad \quad \quad \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{} \text{ km} \end{array}$$

$$\begin{array}{r} 9) \text{ Final reading} \quad 953462 \\ \text{Initial reading} \quad 902563 \\ \text{Distance} \quad \quad \quad \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{} \text{ km} \end{array}$$

$$\begin{array}{r} 10) \text{ Final reading} \quad 231525 \\ \text{Initial reading} \quad 120526 \\ \text{Distance} \quad \quad \quad \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{} \text{ km} \end{array}$$

Human Transportation (2)

Questions

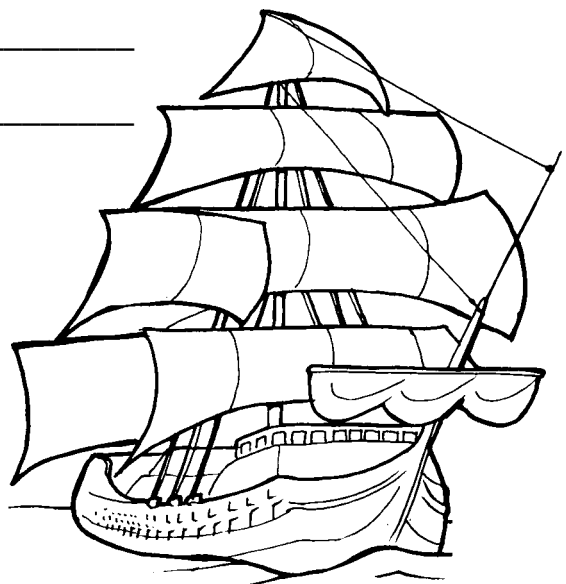
Use the story on page 21 to help you answer these questions.

1. How do most people travel from England to Australia today? _____
2. List 5 things that would be different about making the trip today compared with 1787.

1. _____
2. _____
3. _____
4. _____
5. _____

If you could interview John what 8 questions would you ask him about his life?

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____



Internal Combustion Engine (1)

One of the first working internal combustion engines was built by a German engineer called Nikolaus Otto in 1876.

The engines that are found in cars today might be a little bit bigger and a little bit more powerful than Herr Otto's but basically they still work in the same way.

The following experiments will help you to understand about what happens under the bonnet.

Experiment 1

You will need:

- 1 teaspoon of baking soda (sodium bicarbonate)
- 1 tablespoon vinegar (acetic acid)
- Disposable latex glove
- Clear plastic cup
- Elastic band



What to do:

- Step 1 Go outside.
- Step 2 Place the baking soda into the end of one of the glove's fingers.
- Step 3 Pour the vinegar into the cup.
- Step 4 Being careful to keep the powder trapped in the finger, slip the glove over the top of the cup. You may want to use an elastic band to hold it there.
- Step 5 Lift the glove so that the powder slides into the liquid.
- Step 6 Observe what happens.



Results:

Draw what happened.

Before

After