

Time loop cards

<p>*</p> <p>How many hours in a day?</p>	<p>24</p> <p>How many days in a fortnight?</p>	<p>14</p> <p>How many minutes in 2 hours?</p>	<p>120</p> <p>How many weeks in a year?</p>	<p>52</p> <p>How many days in most years?</p>	<p>365</p> <p>How many days in a leap year?</p>
<p>366</p> <p>How minutes in 1½ hours?</p>	<p>90</p> <p>How many seconds in three minutes?</p>	<p>180</p> <p>How many seconds in half a minute?</p>	<p>30</p> <p>How many days in January?</p>	<p>31</p> <p>How many months in three years?</p>	<p>36</p> <p>How many hours in half a day?</p>
<p>12</p> <p>How many years in a century?</p>	<p>100</p> <p>How many years in a millennium?</p>	<p>1000</p> <p>How many minutes in 5 hours?</p>	<p>300</p> <p>How many hours in a week?</p>	<p>168</p> <p>How many seconds in an hour?</p>	<p>3600</p> <p>Stop the clock!</p>



North Yorkshire Moors steam railway summer timetable

Pickering	Depart	09:00	11:00	12:00	13:00	15:00	-	16:00	-
Levisham	Depart	09:19	11:20	12:20	13:20	15:20	-	16:20	-
Newtondale	Request	-	11:29	12:29	13:29	15:29	-	16:29	-
Goathland	Depart	09:47	11:50	12:50	13:50	16:10	-	16:50	-
Grosmont	Arrive	10:00	12:03	13:03	14:03	16:23	-	17:03	-
Grosmont	Depart	10:13	-	13:13	-	-	16:38	-	-
Whitby	Arrive	10:35	-	13:35	-	-	17:00	-	-
Whitby	Depart	-	11:00	-	-	14:00	-	-	17:30
Grosmont	Arrive	-	11:22	-	-	14:22	-	-	17:50
Grosmont	Depart	10:30	11:30	-	13:30	14:30	-	16:30	18:00
Goathland	Depart	10:50	11:50	-	13:50	14:50	-	16:50	18:15
Newtondale	Request	11:03	12:03	-	14:03	15:03	-	17:03	-
Levisham	Depart	11:20	12:20	-	14:20	15:20	-	17:20	18:40
Pickering	Arrive	11:40	12:40	-	14:40	15:40	-	17:40	19:00

Rates

1. A space hopper champion can hop 3 metres every second. How far can be hopped in 30 seconds? In a minute?
2. A record holder can pop 5 balloons every second with a nail. How many balloons will be popped in 30 seconds? In a minute?
3. A food record challenger can eat a sugared donut in 30 seconds. How many could be eaten in 5 minutes? In 10 minutes?
4. A professional typist can type 60 words per minute. How many words could be typed in 30 seconds? In 10 minutes?
5. A tea lover drinks tea at the rate of 9 cups a day. How many cups are drunk in a week? A month? A year?!
6. A book lover reads 20 pages an hour. How long will it take to finish a 240 page book?
7. A person working in a supermarket is paid £6.50 per hour. How much will they earn in 8 hours?
8. A hot air balloon is gently descending at the rate of 20 metres per minute. If it is 600m above the ground, how long will it take to reach the ground?

Rates

Look at the following world records. Work with a partner to work out rate they had to aim for to make these records, e.g. number of balloons per second, or metres hopped per second.

1. The record for the number of sugared donuts eaten without licking lips is 6 in 3 minutes.
2. The record for popping 200 balloons with a nail is 37.25s.
3. The record for jumping 100m on a space hopper is 30.2s
4. Most tosses of a pancake in one minute is 140.
5. The most pizzas made in one hour is 206, Findlay, Ohio, USA, on 9 December 2010.
6. The greatest distance paddled on a lake in 24 hours is 151.87 miles.

(Records are being broken all the time; some of these may have been broken already!)

Rates (H)

1. The rate is **1 donut per 30 seconds** or **2 donuts per minute**.
2. The rate they had to aim for was **6 balloons per second**. (They achieved 5.37 balloons per second.)
3. The rate they had to aim for was **4 metres per second**. (They achieved 3.31 metres per second.)
4. The rate they had to aim for was **3 tosses per second**. (They achieved 2.33 tosses per second.)
5. The rate they had to aim for was **4 pizzas per minute**. (They achieved 3.43 pizzas per minute.)
6. The rate they had to aim for was **7 miles per hour**. (They achieved 6.33 miles per hour.)