

Friday – Units of Time - Gold

To solve problems converting between units of time

Select the activities that you think are best suited to your own learning, bronze (working towards), silver (working at) and gold (exceeding/greater depth).

Gold

1. It is Tuesday. There are 100 days until Christmas Day.
 - a. What is the date that Tuesday?
 - b. What day is Christmas Day?
2. Mr Healey's marathon time is 2 hours 58 minutes and 29 seconds. This is 213 seconds faster than his previous best time. What was his previous best time?
3. A machine makes one bolt every second. How long will it take to make 10,000 bolts.
4. Mr Worsley leaves Oldham at 10.27 on 26th June. He arrives in Scotland at 16.05 on 2nd July. How long has his journey taken in days, hours, minutes?
5. How many weeks and days are there in:
 - a. The first four months in 2020.
 - b. The last six months of 2020.
6. How many hours are there in July?

Answers

1. It is Tuesday. There are 100 days until Christmas Day.
 - a. What is the date that Tuesday? **25th December is Christmas Day so 25 days December, November is 30 days, October is 31, (86 days) then need 14 for September (31-14 = 16th) 16th September.**
 - b. What day is Christmas Day? **$100 \div 7 = 14 \text{ r } 2$ so Tuesday + 2 days is Thursday**
2. Mr Healey's marathon time is 2 hours 58 minutes and 29 seconds. This is 213 seconds faster than his previous best time. What was his previous best time?
 $213 \div 60 = 3$ minutes (180) and 33 seconds. So 3 hours 2 minutes and 2 seconds
3. A machine makes one bolt every second. How long will it take to make 10,000 bolts.
10,000 seconds or 2 hours 46 min 40 sec
4. Mr Worsley leaves Oldham at 10.27 on 26th June. He arrives in Scotland at 16.05 on 2nd July. How long has his journey taken in days, hours, minutes?
7 days 5 hours 38 minutes
5. How many weeks and days are there in:
 - a. The first four months in 2020. **$31+28+31+30=120$ or 17 weeks 1 day**
 - b. The last six months of 2020. **31, 31, 30, 31, 30, 31 is 184 days or 26 weeks 2 days.**
6. How many hours are there in July? **$31 \times 24 = 744$ hours**