| a) A machine can dig, on average, 2 cm of tunnel each minute. It operates 24 hours of each day. | | b) A machine can dig, on average, 3 cm of tunnel each minute. It operates 18 hours of each day. | |
|---|---|---|--|
| Work out how many days it should take to dig a tunnel of length 3.5km? Give your answer to the nearest day. | | Work out how many days it should take to dig a tunnel of length 6.4km? Give your answer to the nearest day. | |
| 2 cm per minute 2 cm \times 60 = 120 cm per hour 120 cm \times 24 = 2880 cm per day 28.8 m per day | How far can the tunnel dig in a day? | 3 cm per minute 3 cm \times 60 = 180 cm per hour 180 cm \times 18 = 3240 cm per day 32.4 m per day | |
| 3.5 km = 3500 m $\frac{3500}{28.8} = 121.527$ | How long would it take to dig the tunnel? | 6.4 km = 6400 m $\frac{6400}{32.4} = 197.530864198$ | |
| 122 days | What is this to the nearest day? | | |
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| | | | |
| | ach day. s it should take to dig a tunnel of length 3.5km? nearest day. $2 \text{ cm per minute} \\ 2 \text{ cm} \times 60 = 120 \text{ cm per hour} \\ 120 \text{ cm} \times 24 = 2880 \text{ cm per day} \\ 28.8 \text{ m per day} \\ 3.5 \text{ km} = 3500 \text{ m} \\ \frac{3500}{28.8} = 121.527 \\ 122 \text{ days} $ | erage, 2 cm of tunnel each minute. ach day.Á machine can dig, on a It operates 18 hours of Work out how many da Give your answer to the2 cm per minute 2 cm $\times 60 = 120$ cm per hour 120 cm $\times 24 = 2880$ cm per day 28.8 m per dayHow far can the tunnel dig in a day?3.5 km = 3500 m $\frac{3500}{28.8} = 121.527$ How long would it take to dig the tunnel?122 daysWhat is this to | |

BACKWARD FADED MATHS

| c) A machine can dig, on average, 2.5 cm of tunnel each minute. It operates 20 hours of each day. | | d) A machine can dig, on average, 1.2 cm of tunnel each minute. It operates 24 hours of each day. |
|--|---|---|
| Work out how many days it should take to dig a tunnel of length 5km? Give your answer to the nearest day. | | Work out how many days it should take to dig a tunnel of length 1.8 km? Give your answer to the nearest day. |
| How far can the tunnel dig in a day? | 2.5 cm per minute 2.5 cm \times 60 = 150 cm per hour 150 cm \times 20 = 3000 cm per day 30 m per day | |
| How long would it take to dig the tunnel? | | |
| What is this to the nearest day? | | |
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BACKWARD FADED MATHS