

Grade 7 Maths Worksheet

Measurement and time

Questions:

1. Grant started studying for his mathematics test at 8:15am in the morning. He spent $2\frac{1}{2}$ hours on fractions, 1 hour and 20 minutes on decimals and $4\frac{2}{3}$ hours on exponents and algebra. He did not take any breaks. What time did he finish his studying?

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Solution

1. $2\frac{1}{2}$ hours = 2 hours 30 minutes on fractions
1 hour 20 minutes on decimals
 $4\frac{2}{3}$ hours: $\frac{2}{3}$ of an hour = $\frac{2}{3} \times 60\text{minutes} = \frac{120}{3}\text{minutes} = 40\text{minutes}$.
 $4\frac{2}{3} = 4$ hours 40 minutes
So now: Total hours = $2+4+1=7$
Total minutes: $30 + 40 + 20 = 90$
Thus total will be 8 hours and 30 minutes.
Thus: 8 am + 8 hours = 4 pm and 15 + 30 minutes = 45 minutes. So 4:45pm.

The idea with this question is to move flexibly between different representations in the context of time.

Appendix of Assignment Tools

Common fraction

Time measurement