

Grade 8 Mathematics Worksheet

Fractions

Questions:

1. You rent three movies from the DVD store. Their lengths are:

Movie A	1 hour 20 minutes
Movie B	2 hours 10 minutes
Movie C	98 minutes

- a) If you start watching them at 5pm, how late will you be finished watching the movies?
- b) The DVD for movie B gets stuck $\frac{3}{4}$ through the show. How many hours of the film must you still see?

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Solution

1. a)

Movie A	1 hour 20 minutes	80 minutes
Movie B	2 hours 10 minutes	130 minutes
Movie C	98 minutes	98 minutes
	Total:	308 minutes

This is 5 hours and 8 minutes of viewing - $\frac{308}{60} = 5.1333...$. The minutes are

$$0,1333... \times 60 = 8$$

So we will finish watching at roughly 8 minutes past 10 in the evening or 10:08pm. That is with no breaks.

b) $130\left(1 - \frac{3}{4}\right) = 130 \times \frac{1}{4} = 32,5$. So we still need to watch $32\frac{1}{2}$ minutes of the movie.

This is equivalent to $\frac{32,5}{60} = 0,542$ hours.

To be able to compare and work with the different times, a common scale must be chosen by the learner. To keep the work concise and contained, encourage the learners to extend the table, rather than spread calculations over the page.