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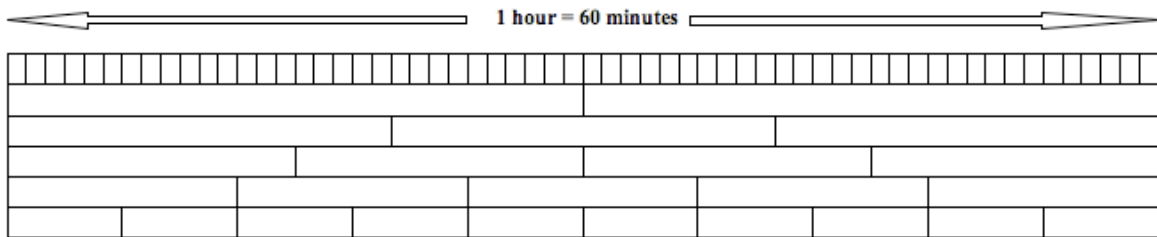
Time

Fractions and Decimals of an Hour

We are learning to write fractions and decimals of hours as hours and minutes.

Exercise 1

Use the Number Wall to help find the number of minutes in each of the following fractions of an hour. You may want to record these special fractions on a table in your work book.



- 1) $\frac{1}{2}$ an hour (2) $\frac{1}{3}$ of an hour (3) $\frac{1}{4}$ of an hour
- 4) $\frac{1}{5}$ of an hour (5) $\frac{1}{10}$ of an hour

Complete these

- 6) $\frac{1}{2}$ an hour is $\frac{1}{2}$ of 60 minutes =
- 7) $\frac{1}{3}$ of an hour is $\frac{1}{3}$ of 60 minutes =
- 8) $\frac{1}{4}$ of an hour is $\frac{1}{4}$ of 60 minutes =
- 9) $\frac{1}{5}$ of an hour is $\frac{1}{5}$ of 60 minutes =
- 10) $\frac{1}{10}$ of an hour is $\frac{1}{10}$ of 60 minutes =

Find how many minutes in the following fractions of an hour. You can use your answers to the previous questions or the fraction wall to help work out the answers

11) $\frac{2}{3}$ of an hour

(12) $\frac{3}{4}$ of an hour

(13) $\frac{2}{5}$ of an hour

14) $\frac{4}{5}$ of an hour

(15) $\frac{1}{6}$ of an hour

(16) $\frac{5}{6}$ of an hour

17) $\frac{3}{5}$ of an hour

(18) $\frac{7}{10}$ of an hour

(19) $\frac{2}{6}$ of an hour

20) $\frac{1}{12}$ of an hour

(21) $\frac{5}{12}$ of an hour

(22) $\frac{3}{10}$ of an hour

23) $1\frac{1}{4}$ hours

(24) $3\frac{2}{5}$ hours

(25) $2\frac{2}{3}$ hours

Exercise 2

Find how many minutes in each of the following decimal fractions of an hour. Your answers to Exercise 1 may be helpful in solving the questions in this exercise.

eg 0.2 of an hour is $\frac{2}{10}$ of an hour = 12 minutes (0.2×60)

1.25 hours is $1\frac{1}{4}$ hours = 1 hour 15 minutes (75 minutes)

1) 1.5 hours

(2) 3.5 hours

(3) 7.5 hours

4) 2.6 hours

(5) 4.2 hours

(6) 5.6 hours

7) 6.1 hours

(8) 8.7 hours

(9) 9.3 hours

10) 6.4 hours

(11) 4.9 hours

(12) 2.3 hours

13) 2.25 hours

(14) 5.25 hours

(15) 7.75 hours

Exercise 3

Find the following decimal fractions of an hour as hours and minutes.

You may use a calculator for these problems

eg 3.45 hours is 3 hours + 0.45×60 minutes = 3 hours 27 minutes.

- | | | |
|---------------|----------------|-----------------|
| 1) 2.35 hours | (2) 4.15 hours | (3) 7.45 hours |
| 4) 2.65 hours | (5) 4.38 hours | (6) 5.28 hours |
| 7) 7.85 hours | (8) 6.95 hours | (9) 2.875 hours |

Exercise 4

Answer **True** or **False** for each of the following

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|---|---------------------------------------|
| 1) 2.45 hours = 2 hours 45 minutes | 2) 2.30 hours = 2 hours 30 minutes |
| 3) 12.75 hours = 12 hours 75 minutes | 4) 11 hrs 75 mins = 12 hrs 15 mins |
| 5) 2.5 hours = 150 minutes | 6) 100 minutes = $1\frac{2}{3}$ hours |
| 7) $\frac{5}{6}$ hour = 56 minutes | 8) $\frac{7}{12}$ hour = 36 minutes |
| 9) $\frac{5}{4}$ hour = 1 hour 15 minutes | 10) 2.85 hours = 3 hours 15 minutes |

Fractions and Decimals of an Hour

Answers

Exercise 1

- | | | | |
|-------------|--------------|---------------|---------------|
| 1) 30 mins | (2) 20 mins | (3) 15 mins | (4) 12 mins |
| 5) 6 mins | | | |
| 6) 30 mins | (7) 20 mins | (8) 15 mins | (9) 12 mins |
| 10) 6 mins | (11) 40 mins | (12) 45 mins | (13) 24 mins |
| 14) 48 mins | (15) 10 mins | (16) 50 mins | (17) 36 mins |
| 18) 42 mins | (19) 20 mins | (20) 5 mins | (21) 25 mins |
| 22) 18 mins | (23) 75 mins | (24) 204 mins | (25) 160 mins |

Exercise 2

- | | |
|-----------------------------------|------------------------------------|
| 1) 1 hour 30 mins = 90 mins | (2) 3 hours 30 mins = 210 mins |
| 3) 7 hours 30 mins = 450 mins | (4) 2 hours 36 mins = 156 mins |
| 5) 4 hours 12 mins = 252 mins | (6) 5 hours 36 mins = 336 mins |
| 7) 6 hours 6 mins = 366 mins | (8) 8 hours 42 mins = 522 mins |
| 9) 9 hours 18 mins = 558 mins | (10) 6 hours 24 mins = 384 mins |
| 11) 4 hours 54 mins = 294 mins | (12) 2 hours 18 mins = 138 mins |
| 13) 2 hours 15 mins = 135 mins | (14) 5 hours 15 minutes = 315 mins |
| 15) 7 hours 45 minutes = 465 mins | |

Exercise 3

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|--------------------|-----------------------|-----------------------|
| 1) 2 hours 21 mins | (2) 4 hours 9 mins | (3) 7 hours 27 mins |
| 4) 2 hours 39 mins | (5) 4 hours 22.8 mins | (6) 5 hours 16.8 mins |
| 7) 7 hours 51 mins | (8) 6 hours 57 mins | (9) 2 hours 52.5 mins |

Exercise 4

- | | | | | |
|------|-------|-------|-------|--------|
| 1) F | (2) F | (3) F | (4) T | (5) T |
| 6) T | (7) F | (8) F | (9) T | (10) F |