

9:07 | Clocks and Times

Name: _____ Class: _____

Examples

1 How many minutes in the following times?

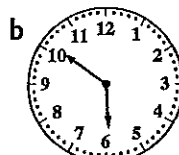
a 4 hours
 4×60
 $= 240 \text{ min}$

b $2\frac{1}{2}$ hours
 $2\frac{1}{2} \times 60$
 $= 150 \text{ min}$

2 Read the times in 'minutes to' or 'minutes past'.



25 minutes past 3



10 minutes to 6



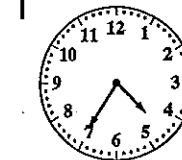
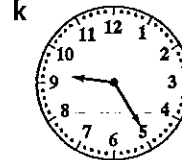
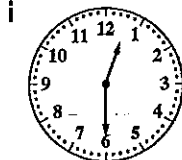
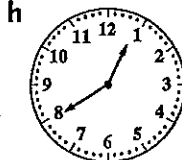
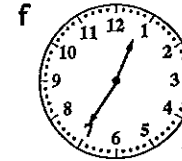
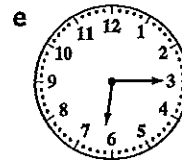
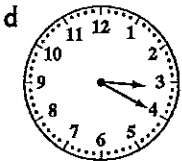
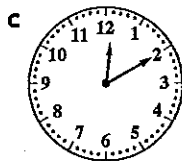
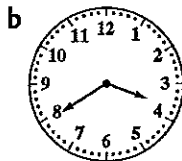
There are 5 minutes between numbers.

Exercise

1 How many minutes in the following lengths of time?

- a 1 hour b 2 hours c 10 hours d 24 hours e $\frac{1}{2}$ hour f $1\frac{1}{2}$ hours
 g 5 hours h $5\frac{1}{2}$ hours i $\frac{1}{4}$ hour j $2\frac{1}{4}$ hours k 11 hours l 7 hours

2 Write each time as 'minutes to' or 'minutes past'.



Fun Spot 9:07 | Why is a belt like a garbage truck?

Fill in the blanks below, then use the letters to answer the riddle.

- A 3 h = ... min B 2 days = ... h C 5 min = ... s D 660 min = ... h
 E 30 min = ... s G 300 min = ... h H 10 min = ... s
 N 180 s = ... min O 30 s = ... m R $\frac{1}{2}$ day = ... h S 6 h = ... min
 T 120 s = ... min U 24 h = ... day W $\frac{3}{4}$ h = ... min

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48 1800 300 180 1 360 1800

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168 2

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5 $\frac{1}{2}$ 1800 360

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180 12 $\frac{1}{2}$ 1 3 11

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180 3 11

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5 180 2 600 1800 12 360

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2 600 1800

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45 180 168 360 2

9:02 Units of Length

- 1 a 2 cm b 3 cm c 6 cm d 9 cm e 9 cm f 12 cm
 2 a 80 b 3 c 9 d 8 e 7000 f 900 g 3000 h 120
 i 5 j 15 k 2000 l 11000 m 5 n 10000 o 8 p 6
 q 12 r 200 s 62 t 6000
 3 a 180 b 120 c 2 d 10 e 300 f 8 g 1440 h 5
 i 1200 j $\frac{1}{2}$ k 15 l 420 m 720 n 600 o 240 p $\frac{1}{4}$

9:03 Measuring Length

- 1 a 5 cm b 4 cm c 2 cm d 2 cm e 7 cm f 4 cm g 5 cm h 3 cm
 i 8 cm j 2 cm
 2 a 32 mm b 8 mm c 35 mm d 25 mm e 51 mm f 18 mm g 63 mm h 74 mm

9:05 Perimeter

- 1 a 9 cm b 31 cm c 24 cm d 64 cm e 56 m f 32 m g 23 m h 45 m
 i 16.4 cm j 48.5 m k 40 mm l 64 m m 52 cm n 22.6 m o 30 mm p 50 cm
 2 a 40 cm b 42 m c 200 m d 6 cm e 134 mm f 14.4 cm g 440 m h 8.4 cm
 i 77 cm j 60.2 m

9:06 The Calendar and Dates

- 1 a 14 b 3 c 1095 d 8 e 56 f 48 g 70 h 12
 i 52 j 120 k 40 l 6
 2 a 7 b 23 c 22 d 22 e 28 (or 29 in leap year) f 91 g 66
 h 28 i 61 j 25

9:07 Clocks and Times

- 1 a 60 b 120 c 600 d 1440 e 30 f 90 g 300 h 330
 i 15 j 135 k 660 l 420
 2 a 5 minutes to 9 b 20 minutes to 4 c 10 minutes past 12 d 20 minutes past 3
 e 15 minutes past 6 f 25 minutes to 1 g 10 minutes to 4 h 20 minutes to 1
 i 30 minutes past 12 j 15 minutes past 11 k 25 minutes past 9 l 25 minutes to 5

9:08 Operating With Time

- 1 a 7 h 30 min b 7 h 20 min c 6 h 35 min d 5 h 40 min
 e 10 h 55 min f 14 h 5 min g 13 h 30 min h 4 h 53 min
 i 10 h 26 min j 4 h 42 min k 2 h 46 min l 5 h 14 min
 2 a 3 h b 4 h c 6 h d 7 h e 11 h f 11 h
 g 7 h h 5 h i 12 h j 5 h k 12 h l 9 h
 3 a 15 min b 22 min c 30 min d 25 min
 e 1 h 20 min f 1 h 20 min g 2 h 30 min h 3 h 15 min
 i 34 min j 2 h 20 min k 1 h 5 min l 23 min

10:02 Making Sense of Algebra

- 1 a $x+2$ b $y+3$ c $3x$ d 6 e $a+8$ f $4y+3$ g $2x+3$ h $y+5$
 i $3a+3$ j $5y+3$
 2 a $2y+1$ b $2x+y$ c $x+y$ d $3x+2y$
 e $a+3b$ f $2x+3$ g $2a+3b$ h $3x+4$
 i $5x+2y$ j $4y+5$ k $2x+y+2$ l $a+3b+2$
 m $3a+2b+1$ n $x+2y+3$ o $m+n+4$

10:03 Substitution

- 1 a 36 b 40 c 11 d 3 e 9 f 15 g 0 h 63
 i 8 j 36 k 17 l 24 m 1 n 6 o 4 p 5
 2 a 2 b 8 c 20 d 16 e -3 f 8 g 19 h 20
 i 3 j 124 k 24 l 48 m -8 n -8 o 7 p 52
 q -3 r 12 s 28 t 30 u 3