

9:08 | Operating with Time

Name: _____ Class: _____

Examples

1 Find 3 h 10 min plus 4 h 20 min.

$$\begin{array}{r} 3 \text{ h } 10 \text{ min} \\ 4 \text{ h } 20 \text{ min} \\ \hline 7 \text{ h } 30 \text{ min} \end{array}$$

2 Find the difference between 9 am and 8 pm.

$$\begin{array}{l} 9 \text{ am to } 12 \text{ noon} = 3 \text{ h} \\ \text{noon to } 8 \text{ pm} = 8 \text{ h} \\ \therefore \text{ difference} = 11 \text{ h} \end{array}$$

3 How long is it from

a 8:15 to 8:55?	b 3:30 to 5:45?
55 min	5 h 45 min
-15 min	-3 h 30 min
<u>40 min</u>	<u>2 h 15 min</u>

Exercise

- 1
- | | | |
|---------------------------|---------------------------|---------------------------|
| a 2 h + 5 h 30 min | b 1 h 20 min + 6 h | c 4 h 15 min + 2 h 20 min |
| d 3 h 25 min + 2 h 15 min | e 2 h 55 min + 8 h | f 10 h + 4 h 5 min |
| g 6 h 25 min + 7 h 5 min | h 1 h 17 min + 3 h 36 min | i 8 h 7 min + 2 h 19 min |
| j 4 h 15 min + 27 min | k 34 min + 2 h 12 min | l 3 h 5 min + 2 h 9 min |
- 2 What is the difference between the following times (on the same day)?
- | | | |
|------------------|------------------|---------------------|
| a 10 am and 1 pm | b 7 pm and 11 pm | c 4 am and 10 am |
| d 8 am and 3 pm | e 1 am and noon | f 3 am and 2 pm |
| g 11 am and 6 pm | h noon and 5 pm | i noon and midnight |
| j 3 pm and 8 pm | k 6 am and 6 pm | l 7 am and 4 pm |
- 3 How long is it between the following times?
- | | | |
|-----------------|----------------|------------------|
| a 5:35 to 5:50 | b 1:20 to 1:42 | c 11:10 to 11:40 |
| d 7:05 to 7:30 | e 3:10 to 4:30 | f 10:15 to 11:35 |
| g 9:05 to 11:35 | h 6:30 to 9:45 | i 2:16 to 2:50 |
| j 4:30 to 6:50 | k 3:25 to 4:30 | l 8:27 to 8:50 |

Fun Spot 9:08 | My sister went on a crash diet.

Put these times in order from the earliest to the latest in the day (1st to 13th). Then use the letters to complete the punchline below.

- | | | | | |
|-----------|------------|------------|-----------|-----------|
| A 2:30 pm | C noon | E 7:20 am | H 6:45 pm | I 4 am |
| K 9:16 pm | L 11:52 am | O 1 am | R 3:05 pm | S 5:55 am |
| T 9 pm | W 12:30 am | Y 11:10 pm | | |

3rd 4th

11th 10th 8th 11th

1st 10th 13th

4th 10th 5th

6th 2nd 2nd 12th 4th

8th

?
1st 9th 5th 7th 12th



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 11 000 m 5 n 10 000 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