

9:03 | Measuring Length

Name: _____ Class: _____

Examples



- Measuring is rounding off.
- Write the measurement it is closest to.



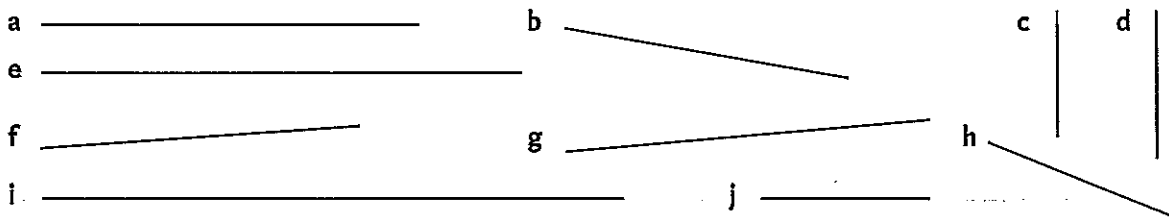
This measures 3 cm to the nearest cm, since it is only a bit more than 3 cm long.



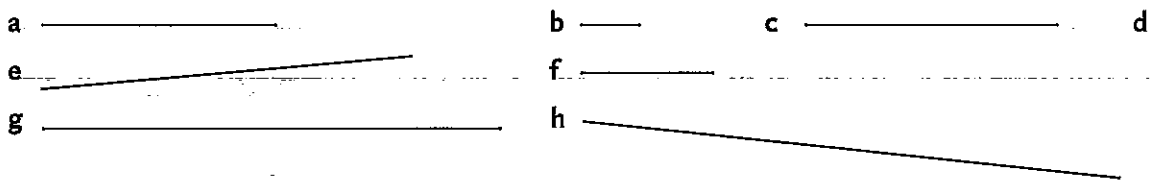
This measures 37 mm to the nearest mm, since the ruler is marked in mm. (It would measure 4 cm to the nearest cm.)

Exercise

1 Measure these lengths correct to the nearest centimetre.



2 Measure these lengths in millimetres.



Fun Spot 9:03 | What's the easiest way to get a day off school?

Put these lengths in order from shortest to longest in the boxes below to find the code. (Change to mm first.) Use the code to solve the riddle.



(shortest) (longest)
 A D I L N R S T U W Y

- 1 19 mm 2 3 cm 3 28 mm 4 6.2 cm 5 6.7 cm 6 59 mm
 7 1 cm 8 39 mm 9 5 cm 10 42 mm 11 4 mm

 !

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