

Worksheet 15

Rounding Decimals

- 1 In a puzzle-solving competition, the times taken to solve some simple problems were:

Name of participant	Time taken
Sam	15.32 s
Holly	17.56 s
Emma	11.11 s
Elliott	10.55 s
Ravi	20.42 s

- (a) (i) Who took the least amount of time to solve the problems?

Elliott

- (ii) Round his/her time to the nearest whole second.

11 s

- (b) Round Sam's and Holly's time to the nearest tenth of a second.

Sam: 15.3 s

Holly: 17.6 s

2 Emma took part in a swimming competition. All she was told was that her time was 2 minutes to the nearest second.

(a) What is the fastest possible time Emma could have swum, measured to the nearest tenth of a second?

119.5 s

(b) What is the slowest possible time Emma could have swum, measured to the nearest tenth of a second?

120.4 s

3 These two unknown numbers have been rounded to the nearest tenth. How small could each number be?

(a) $\boxed{?} \boxed{?} . \boxed{?} \boxed{?} \approx 17.2$

17.15

(b) $\boxed{?} \boxed{?} \boxed{?} . \boxed{?} \boxed{?} \approx 108.9$

108.85

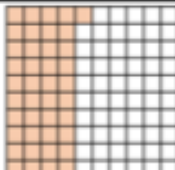
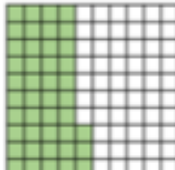
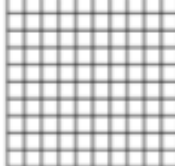
Dora says,



When you multiply by 100, you should add two zeros.

Do you agree?
Explain your thinking.

 Complete the table.

Pictorial	Percentage	Fraction	Decimal
	41 parts per hundred 41%	41 out of 100 $\frac{41}{100}$	41 hundredths 0.41
			
	7 parts per hundred 7%		

Dora says,



When you multiply by 100, you should add two zeros.

Do you agree?
Explain your thinking.

Children should explain that when you multiply by 100 the digits move two places to the left.

For example:
 $0.34 \times 100 =$
0.3400 is
incorrect as 0.34
is the same as
0.3400

Also:
 $0.34 + 0 + 0 =$
0.34

Children show
 $0.34 \times 100 = 34$