

1:10 | Estimation

Name: _____

Class: _____

Examples

Estimate the answers.

1 8.75×51.7
 $\approx 10 \times 50$
 ≈ 500

2 $924 \div 83$
 $\approx 900 \div 90$
 ≈ 10

3 $2.7^2 \times 8.2$
 $\approx 3^2 \times 10$
 $\approx 9 \times 10$
 ≈ 90

4 $\frac{15.7 \times 28.3}{4.6}$
 $\approx \frac{15 \times 30}{5}$
 ≈ 90

Exercise

1 Estimate the answers.

a $4.9 + 10.2$

b 6.15×9.89

c 27×38

d $11.3 + 49.87$

e $621 + 488$

f 54×26

g $87.34 - 31.04$

h 18.6×67.1

i $\sqrt{106}$

j 4.67^2

k 43.6×8.1

l $\sqrt{29.34}$

2 Find approximate answers.

a $16.1 \div 7.9$

b $7.1^2 \div 9.9$

c $\sqrt{8.1} \times 11.4$

d $87.2 \div 19.3$

e $206 \div 13.3$

f $18^2 \div 21.3$

g $\sqrt{40} \times 18.5$

h $38.3 \div 4.2$

i $954 \div 83$

j $3.8^2 \times 93$

k $\sqrt{68} \div 7.3$

l $12.7^2 \times 1.9^2$

3 Estimate the answers.

a $\frac{23.1 + 13.5}{6.8}$

b $\frac{82 \times 37}{73}$

c $\frac{4.9 + 11.6}{24.3 - 8.6}$

d $\frac{8.7^2}{\sqrt{23}}$

e $\frac{1.68 \times 13.8}{4.34}$

f $\frac{2.7}{32.1}$

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These are estimates; other answers are possible. Check with your teacher if unsure.

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|----------|------|--------|--------|-------|--------|--------|-------|--------|
| 1 | a 15 | b 70 | c 1200 | d 60 | e 1100 | f 1500 | g 60 | h 1400 |
| | i 10 | j 25 | k 400 | l 5 | | | | |
| 2 | a 2 | b 5 | c 30 | d 5 | e 10 | f 20 | g 120 | h 10 |
| | i 12 | j 1440 | k 1 | l 400 | | | | |
| 3 | a 5 | b 40 | c 1 | d 16 | e 5 | f 0.1 | | |