



Add and subtract decimals

Name: _____

Date: _____

Fractions and Decimals

Add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers (VCMNA214)

Understanding

1. Add the following decimals:

a)
$$\begin{array}{r} 0.84 \\ + 0.12 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 0.38 \\ + 0.46 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 0.85 \\ + 0.49 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 0.74 \\ + 0.25 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 0.83 \\ + 0.37 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 1.86 \\ + 0.57 \\ \hline \end{array}$$

2. Subtract the following decimals:

a)
$$\begin{array}{r} 0.54 \\ - 0.33 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 0.74 \\ - 0.47 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 1.46 \\ - 0.68 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 0.84 \\ - 0.46 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 1.57 \\ - 0.75 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 2.47 \\ - 1.78 \\ \hline \end{array}$$

Fluency

1. Answer the following questions:

a)
$$\begin{array}{r} 2.47 \\ + 0.7 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 3.65 \\ - 2.8 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 4.753 \\ - 2.659 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 1.57 \\ + 1.5 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 4.55 \\ - 3.8 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 7.361 \\ - 4.57 \\ \hline \end{array}$$

2. Round each number to the nearest whole number:

a) $4.32 = \underline{\hspace{2cm}}$

g) $28.587 = \underline{\hspace{2cm}}$

b) $8.843 = \underline{\hspace{2cm}}$

h) $85.237 = \underline{\hspace{2cm}}$

c) $9.465 = \underline{\hspace{2cm}}$

i) $56.538 = \underline{\hspace{2cm}}$

d) $3.543 = \underline{\hspace{2cm}}$

j) $74.467 = \underline{\hspace{2cm}}$

e) $2.568 = \underline{\hspace{2cm}}$

k) $78.540 = \underline{\hspace{2cm}}$

f) $0.657 = \underline{\hspace{2cm}}$

l) $32.561 = \underline{\hspace{2cm}}$

Problem Solving

1. Sally purchased a jumper for \$24.85 and some pants for \$39.55. How much did she spend?



3. Terry cut his first piece of wood 2.37 m long, his next 3.48 m long and his last 5.92 m long. How long was the original piece of wood?



2. A recipe for raisin bread contains 0.85 kg of flour, 0.012 kg of yeast and 0.43 kg of raisins. What is the total weight of the bread?



4. Simon's water jug holds 2.5 L of water. He fills Delany's cup with 0.32 L of water and Sarah's cup with 0.57 L of water. How much water is left in the jug?



Reasoning

1. Estimate each answer by rounding to the nearest whole number.

a) $3.57 + 8.27 =$

e) $13.92 + 25.59 =$

b) $9.32 + 5.73 =$

f) $14.43 + 17.47 =$

c) $3.47 + 9.42 =$

g) $26.78 + 57.32 =$

d) $2.85 + 6.93 =$

h) $16.76 + 21.47 =$

2. Estimate each answer by rounding to the nearest whole number.

a) $8.74 - 4.87 =$

e) $58.37 - 23.94 =$

b) $7.47 - 3.98 =$

f) $56.38 - 41.30 =$

c) $6.94 - 4.72 =$

g) $86.23 - 76.91 =$

d) $7.98 - 5.27 =$

h) $46.87 - 12.58 =$



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Understanding

1. Add the following decimals:

$$\begin{array}{r} \text{a)} \quad 0.84 \\ + 0.12 \\ \hline \quad 0.96 \end{array}$$

$$\begin{array}{r} \text{c)} \quad 0.38 \\ + 0.46 \\ \hline \quad 0.84 \end{array}$$

$$\begin{array}{r} \text{e)} \quad 0.85 \\ + 0.49 \\ \hline \quad 1.34 \end{array}$$

$$\begin{array}{r} \text{b)} \quad 0.74 \\ + 0.25 \\ \hline \quad 0.99 \end{array}$$

$$\begin{array}{r} \text{d)} \quad 0.83 \\ + 0.37 \\ \hline \quad 1.20 \end{array}$$

$$\begin{array}{r} \text{f)} \quad 1.86 \\ + 0.57 \\ \hline \quad 2.43 \end{array}$$

2. Subtract the following decimals:

$$\begin{array}{r} \text{a)} \quad 0.54 \\ - 0.33 \\ \hline \quad 0.21 \end{array}$$

$$\begin{array}{r} \text{c)} \quad 0.74 \\ - 0.47 \\ \hline \quad 0.27 \end{array}$$

$$\begin{array}{r} \text{e)} \quad 1.46 \\ - 0.68 \\ \hline \quad 0.78 \end{array}$$

$$\begin{array}{r} \text{b)} \quad 0.84 \\ - 0.46 \\ \hline \quad 0.38 \end{array}$$

$$\begin{array}{r} \text{d)} \quad 1.57 \\ - 0.75 \\ \hline \quad 0.82 \end{array}$$

$$\begin{array}{r} \text{f)} \quad 2.47 \\ - 1.78 \\ \hline \quad 0.69 \end{array}$$

Fluency

1. Answer the following questions:

$$\begin{array}{r} \text{a)} \quad 2.47 \\ + 0.7 \\ \hline \quad 3.17 \end{array}$$

$$\begin{array}{r} \text{c)} \quad 3.65 \\ - 2.8 \\ \hline \quad 0.85 \end{array}$$

$$\begin{array}{r} \text{e)} \quad 4.753 \\ - 2.659 \\ \hline \quad 2.094 \end{array}$$

$$\begin{array}{r} \text{b)} \quad 1.57 \\ + 1.5 \\ \hline \quad 3.07 \end{array}$$

$$\begin{array}{r} \text{d)} \quad 4.55 \\ - 3.8 \\ \hline \quad 0.75 \end{array}$$

$$\begin{array}{r} \text{f)} \quad 7.361 \\ - 4.57 \\ \hline \quad 2.791 \end{array}$$

2. Round each number to the nearest whole number:

$$\text{a)} \quad 4.32 = \underline{4}$$

$$\text{g)} \quad 28.587 = \underline{29}$$

$$\text{b)} \quad 8.843 = \underline{9}$$

$$\text{h)} \quad 85.237 = \underline{85}$$

$$\text{c)} \quad 9.465 = \underline{9}$$

$$\text{i)} \quad 56.538 = \underline{57}$$

$$\text{d)} \quad 3.543 = \underline{4}$$

$$\text{j)} \quad 74.467 = \underline{74}$$

$$\text{e)} \quad 2.568 = \underline{3}$$

$$\text{k)} \quad 78.540 = \underline{79}$$

$$\text{f)} \quad 0.657 = \underline{1}$$

$$\text{l)} \quad 32.561 = \underline{33}$$

Problem Solving

1. Sally purchased a jumper for \$24.85 and some pants for \$39.55. How much did she spend?



\$64.40

3. Terry cut his first piece of wood 2.37 m long, his next 3.48 m long and his last 5.92 m long. How long was the original piece of wood?



11.77 m

2. A recipe for raisin bread contains 0.85 kg of flour, 0.012 kg of yeast and 0.43 kg of raisins. What is the total weight of the bread?



1.292 kg

4. Simon's water jug holds 2.5 L of water. He fills Delany's cup with 0.32 L of water and Sarah's cup with 0.57 L of water. How much water is left in the jug?



1.61 L

Reasoning

1. Estimate each answer by rounding to the nearest whole number.

$$\text{a)} \quad 3.57 + 8.27 = \underline{12}$$

$$\text{e)} \quad 13.92 + 25.59 = \underline{40}$$

$$\text{b)} \quad 9.32 + 5.73 = \underline{15}$$

$$\text{f)} \quad 14.43 + 17.47 = \underline{32}$$

$$\text{c)} \quad 3.47 + 9.42 = \underline{12}$$

$$\text{g)} \quad 26.78 + 57.32 = \underline{84}$$

$$\text{d)} \quad 2.85 + 6.93 = \underline{10}$$

$$\text{h)} \quad 16.76 + 21.47 = \underline{38}$$

2. Estimate each answer by rounding to the nearest whole number.

$$\text{a)} \quad 8.74 - 4.87 = \underline{4}$$

$$\text{e)} \quad 58.37 - 23.94 = \underline{34}$$

$$\text{b)} \quad 7.47 - 3.98 = \underline{3}$$

$$\text{f)} \quad 56.38 - 41.30 = \underline{15}$$

$$\text{c)} \quad 6.94 - 4.72 = \underline{2}$$

$$\text{g)} \quad 86.23 - 76.91 = \underline{9}$$

$$\text{d)} \quad 7.98 - 5.27 = \underline{3}$$

$$\text{h)} \quad 46.87 - 12.58 = \underline{34}$$