Decimal Operations Worksheet

1. Convert the following fractions to decimals (round it to the nearest hundredths if applicable):

a) $\frac{1}{5}$	b) $\frac{3}{4}$	c) $\frac{3}{8}$	d) $\frac{1}{2}$
e) $\frac{3}{2}$	f) $\frac{8}{5}$	g) $\frac{16}{5}$	h) $\frac{11}{6}$
i) $1\frac{2}{5}$	j) $2\frac{5}{6}$	k) $3\frac{1}{6}$	l) $5\frac{7}{15}$

2. Convert the following percentage to decimals:

a) 20%	b) 35%	c) 125%	d) 256%
e) 780%	f) 1200%	g) 3100%	h) 85000%
i) 1.35%	j) 10.23%	k) 3.542%	l) 5.012%
m) 0.35%	n) 0.124%	o) 0.0265%	p) 0.00458%

3. Rounding:

a) To the nearest tenths	1.325	2.654	8.2801
b) To the nearest hundredths	4.5962	5.1205	7.256
c) To the nearest tens	1245	358	4786
d) To the nearest thousands	47865	120478	423065

4. Put a bar ($-$) above the repeating decimal digits.

a) 2.333…	b) 1.7272…	c) 12.635635…	d) 8.5656…
e) 6.42121…	f) 4.02323…	g) 3.0213213…	h) 0.123434…

5. Do the following additions with decimals:

a) 1.453+1.5	b) 3.28+0.076	c) 5.054+8.76	d) 13.028+8.976
e) 15.37+2.849	f) 12.784+2.35	g) 2.3+6.67	h) 34+1.258
i) 41+0.586	j) 52.32+458.68	k) 6.588+0.754	l) 87.9+9.846
m) 23.46+97 + 0.1576		n) 100.99+23.1 + 7.598	
o) 5.269+47 + 12.65		p) 7.187+43 + 4.2867	
q) Lucy spent $12.54 on clothes and had $ 24.9 left with her. How much money did Lucy have in the beginning?			
r) Peter ran 5.4 km on the first day, 10.85 km on the second day, and 21.984 km on the third day. How many kilometers did Peter run?			
s) Shirley drove 132.9 miles, then took a break, after that he drove 219.82 miles. How far did Shirley drive?			
t) Mathew placed an order for a drum set priced at $89.79 and an electronic organ for $128.49. How much does Mathew have to pay in total once he receives the items?			
u) A swimmer in a 100-meter race swims the first half of the race in 35.34 seconds and the last half of the race in 38.86 seconds. How long did it take to swim the whole race?			
v) The measurements of the floor area of three rooms in Kevin's house were 136.4 ft^2, 229.25 ft^2 and 300.93 ft^2. What was the total floor area of all the three rooms?			

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6. Subtract the following decimals:

a) 0.78 − 0.12	b) 0.452 − 0.12	c) 4.782 − 0.98	d) 6.42 − 0.524
e) 1.367 − 0.054	f) 0.2 − 0.158	g) 0.9606 − 0.603	h) 0.8 − 0.32
i) 0.772 − 0.12	j) 0.6 − 0.469	k) 1.762 − 0.0094	l) 0.402 − 0.3908
m) 0.33 − 0.002	n) 0.3 − 0.009	o) 0.32 − 0.276	p) 0.715 − 0.8
q) 0.83 − 0.74	r) 0.8606 − 0.62	s) 0.101 − 0.19	t) 1.007 − 0.785
u) 0.476 − 0.446	v) 0.79 − 0.329	w) 0.7883 − 0.96	x) 0.2085 − 0.07
y) 741.09 − 36.64	z) 173.938 − 7.38	aa) 230.769 − 40.89	bb) 31.265 − 22.428
cc) 303.47 − 96.8	dd) 780 − 39.583	ee) 701.12 − 368.56	ff) 354.02 − 189.9
gg) 0.36 less than 0.806.			
hh) From 0.72 take 0.564 away.			
ii) Katherine bought clothing items which cost $78.98 in total. She gave $ 100 to the cashier. How much does she receive as change?			
jj) John had $453.65. He gave $18.95 to Mary to buy a book. How much money does he have left with him?			
kk) Roger and Kate traveled 543.06 miles and 498.287 miles respectively. Who traveled more distance and by how much?			
ll) The sum of two decimals is 18.021. What is the second decimal, if one of them is 9.49?			
mm) Sarah is 1.563m tall and Sophie is 1.702m tall. What is the difference?			

7. Multiply the following decimals:

a) 1.3×8	b) 2.4×6	c) 0.35×0.7	d) 0.085×0.3
e) 3.12×18	f) 1.53×2.4	g) 5.2×80.1	h) 4.03×0.035
i) 8.02×0.28	j) 11.3×0.08	k) 21.6×0.16	l) 5.6×1.28
m) 3.3×8.23	n) 9.1×3.08	o) 0.89×2.31	p) 36×0.623
q) 30.1×0.63	r) 5.1×0.632	s) 12.1×0.65	t) 2.51×0.53
u) 12.3×451	v) 21.6×7.54	w) 0.385×8.12	x) 9.37×0.528
y) 862.3×1.46	z) 34.03×7.36	aa) 6.347×37.2	bb) 0.1485×3.96
cc) 0.37×10	dd) 4.587×100	ee) 4.07×1000	ff) 8.6×10000
gg) 82×0.1	hh) 6.34×0.01	ii) 0.21×0.001	jj) 78.37×0.0001

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kk) What is the product of 25.03 and 8.36?
ll) Multiply 0.5691 and 4.85.
mm) What is the value of 2.516 × 4.56?
nn) One-pound equals 0.45 kilogram. Ann weighs 98.46 lbs. on the bathroom scale. Determine her weight in kilograms.
oo) One-inch equals 2.54 cm. The rod is 54.9 in. How long is the rod in centimeters?

8. Divide the following decimals (Round the quotient to the nearest hundredth):

a) $93.6 \div 6$	b) $597.1 \div 7$	c) $163.8 \div 21$	d) $119.68 \div 34$
e) $8 \div 0.2$	f) $12 \div 0.4$	g) $510 \div 0.5$	h) $3316 \div 0.3$
i) $19.14 \div 0.66$	j) $6.164 \div 0.67$	k) $0.1452 \div 3.3$	l) $42.12 \div 0.003$
m) $812.3 \div 0.83$	n) $7.48 \div 2.4$	o) $0.00075 \div 0.25$	p) $0.4352 \div 0.034$
q) $133.03 \div 5.3$	r) $9.635 \div 0.41$	s) $12.864 \div 3.2$	t) $12.48 \div 0.16$
u) $6.76 \div 5.2$	v) $0.32984 \div 0.08$	w) $41.013 \div 0.63$	x) $7.308 \div 3.6$
y) $8.188 \div 2.3$	z) $0.03645 \div 0.15$	aa) $0.4896 \div 0.32$	bb) $7.952 \div 0.56$
cc) $2.9684 \div 0.41$	dd) $0.1134 \div 2.1$	ee) $2.112 \div 0.33$	ff) $8.188 \div 2.3$
gg) $6.48 \div 1.6$	hh) $1.155 \div 0.14$	ii) $250.38 \div 0.039$	jj) $0.0396 \div 0.024$
kk) How many times does 0.23 go into 46.046?			
ll) A carpenter wants to make a spice rack for the kitchen. He cuts a 16.24 feet long plank into 5 pieces of equal length. What is the length of each piece of wood?			
mm) What is the average speed in miles per hour of a car that travels 983.4 miles in 16.9 hours?			
nn) One inch is equivalent to 2.54 cm. How many inches are there in 97.79 centimeters?			

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Answer Key:

1. Convert the following fractions to decimals (round it to the nearest hundredths if applicable):

a) 0.2	b) 0.75	c) 0.375	d) 0.5	e) 1.5	f) 1.6
g) 3.2	h) 1.83	i) 1.4	j) 2.83	k) 3.17	l) 5.47

2. Convert the following percentage to decimals:

a) 0.2	b) 0.35	c) 1.25	d) 2.56	e) 7.8	f) 12	g) 31	h) 850
i) 0.0135	j) 0.1023	k) 0.03542	l) 0.05012	m)0.0035	n) 0.00124	o) 0.000265	p) 0.0000458

3. Rounding:

a) To the nearest tenths	1.3	2.7	8.3
b) To the nearest hundredths	4.60	5.12	7.26
c) To the nearest tens	1250	360	4790
d) To the nearest thousands	48000	120000	423000

4. Put a bar ($-$) above the repeating decimal digits.

a) $2.\overline{3}$	b) $1.\overline{72}$	c) $12.\overline{635}$	d) $8.\overline{56}$
e) $6.4\overline{21}$	f) $4.0\overline{23}$	g) $3.0\overline{213}$	h) $0.12\overline{34}$

5. Do the following additions with decimals

a) 2.953	b) 3.356	c) 13.814	d) 22.004	e) 18.219	f) 15.134
g) 8.97	h) 35.258	i) 41.586	j) 511	k) 7.342	l) 97.746
m) 120.6176	n) 131.688	o) 64.919	p) 54.4737	q) $37.44	r) 38.234km
s) 352.72miles	t) $218.28	u) 74.20 sec	v) 666.58 ft^2		

6. Subtract the following decimals:

a) 0.66	b) 0.332	c) 3.802	d) 5.896	e) 1.313	f) 0.042
g) 0.3576	h) 0.48	i) 0.652	j) 0.131	k) 1.7526	l) 0.0112
m) 0.328	n) 0.291	o) 0.044	p) -0.85	q) 0.09	r) 0.2406
s) -0.089	t) 0.222	u) 0.030	v) 0.461	w) 0.1717	x) 0.1385
y) 704.45	z) 166.558	aa) 189.879	bb) 8.837	cc) 206.67	dd) 740.417
ee) 332.56	ff) 164.12	gg) 0.446	hh) 0.156	ii) $21.02	jj) $434.70
kk) 44.773miles	ll) 8.531	mm) 0.139 m			

7. Multiply the following decimals:

a) 10.4	b) 14.4	c) 0.245	d) 0.0255	e) 56.16	f) 3.672
g) 416.52	h) 0.14105	i) 2.2456	j) 0.904	k) 3.456	l) 7.168
m) 27.159	n) 28.028	o) 2.0669	p) 22.428	q) 18.963	r) 3.2232
s) 7.865	t) 1.3303	u) 5547.3	v) 162.864	w) 3.1262	x) 4.94736
y) 1258.958	z) 250.4608	aa) 236.1084	bb) 0.58806	cc) 3.7	dd) 458.7
ee) 4070	ff) 86000	gg) 8.2	hh) 0.0634	ii) 0.00021	jj) 0.007837
kk) 209.2508	ll) 2.760135	mm) 11.47296	nn) 44.307g	oo) 139.446cm	

8. Divide the following decimals (Round the quotient to the nearest hundredth):

a) 15.6	b) 85.3	c) 7.8	d) 3.52	e) 40	f) 30
g) 1020	h) 11053.3	i) 29	j) 9.2	k) 0.044	l) 14040
m) 978.6747	n) 3.116	o) 0.003	p) 12.8	q) 25.1	r) 23.5
s) 4.02	t) 78	u) 1.3	v) 4.123	w) 65.1	x) 2.03
y) 3.56	z) 0.243	aa) 1.53	bb) 14.2	cc) 7.24	dd) 0.054
ee) 6.4	ff) 3.56	gg) 4.05	hh) 8.25	ii) 6420	jj) 1.65
kk) 200.2	ll) 30248 ft.	mm) 58.19 miles	nn) 38.5 in.		