KPU | KWANTLEN POLYTECHNIC UNIVERSITY

Decimal Worksheet

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

   1) $\frac{1}{5}$ 2) $\frac{3}{4}$ 3) $\frac{3}{8}$ 4) $\frac{1}{2}$

   5) $\frac{3}{2}$ 6) $\frac{8}{5}$ 7) $\frac{16}{5}$ 8) $\frac{11}{6}$

   9) $1\frac{2}{5}$ 10) $2\frac{5}{6}$ 11) $3\frac{1}{6}$ 12) $5\frac{7}{15}$

2. **Convert the following percentage to decimals:**

   1) 20%   2) 35%   3) 125%   4) 256%

   5) 780%   6) 1200%   7) 3100%   8) 85000%

   9) 1.35%   10) 10.23%   11) 3.542%   12) 5.012%

   13) 0.35%   14) 0.124%   15) 0.0265%   16) 0.00458%

3. **Rounding:**

1) To the nearest tenths	1.325	2.654	8.2801
2) To the nearest hundredths	4.5962	5.1205	7.256
3) To the nearest tens	1245	358	4786
4) To the nearest thousands	47865	120478	423065

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

   5) 2.333…   6) 1.7272…   7) 12.635635…   8) 8.5656…
   9) 6.42121…   10) 4.02323…   11) 3.0213213…   12) 0.123434…

5. **Do the following additions with decimals:**

1) 1.453+1.5	2) 3.28+0.076	3) 5.054+8.76	4) 13.028+8.976
5) 15.37+2.849	6) 12.784+2.35	7) 2.3+6.67	8) 34+1.258
9) 41+0.586	10) 52.32+458.68	11) 6.588+0.754	12) 87.9+9.846
13) 23.46+97+0.1576		14) 100.99+23.1+7.598	
15) 5.269+47+12.65		16) 7.187+43+4.2867	
17) Lucy spent $12.54 on clothes and had $ 24.9 left with her. How much money did Lucy have in the beginning?			
18) 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?			
19) Tom drove 132.9 miles, then took a break, after that he drove 219.82 miles. How far did Tom drive?			
20) 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?			
21) A swimmer is in a 100-meter race. She 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 her to swim the whole race?			

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22) Kevin measures the floor area of three rooms in his house. The measurements were 136.4 ft², 229.25 ft² and 300.93 ft² respectively. How much did the total floor area of all the three rooms come to?

6. Subtract the following decimals:

1) $0.78-0.12$	2) $0.452-0.12$	3) $4.782-0.98$	4) $6.42-0.524$
5) $1.367-0.054$	6) $0.2-0.158$	7) $0.9606-0.603$	8) $0.8-0.32$
9) $0.772-0.12$	10) $0.6-0.469$	11) $1.762-0.0094$	12) $0.402-0.3908$
13) $0.33-0.002$	14) $0.3-0.009$	15) $0.32-0.276$	16) $0.715-0.8$
17) $0.83-0.74$	18) $0.8606-0.62$	19) $0.101-0.19$	20) $1.007-0.785$
21) $0.476-0.446$	22) $0.79-0.329$	23) $0.7883-0.96$	24) $0.2085-0.07$
25) $741.09-36.64$	26) $173.938-7.38$	27) $230.769-40.89$	28) $31.265-22.428$
29) $303.47-96.8$	30) $780-39.583$	31) $701.12-368.56$	32) $354.02-189.9$

33) 0.36 less than 0.806.

34) From 0.72 take 0.564 away.

35) Katherine bought cosmetic item which cost $78.98 in total. She gave $ 100 to the shop keeper. How much does she receive as change?
36) John had $453.65. He gave $18.95 to Mary to buy a book. How much money does he have left with him?
37) Roger and Kate traveled 543.06 miles and 498.287 miles respectively. Who traveled more distance and by how much?
38) The sum of two decimals is 18.021. What is the second decimal, if one of them is 9.49?
39) Sarah is 1.563m tall and Sophie is 1.702m tall. What is the difference?

7. Multiply the following decimals:

1) 1.3×8	2) 2.4×6	3) 0.35×0.7	4) 0.085×0.3
5) 3.12×18	6) 1.53×2.4	7) 5.2×80.1	8) 4.03×0.035
9) 8.02×0.28	10) 11.3×0.08	11) 21.6×0.16	12) 5.6×1.28
13) 3.3×8.23	14) 9.1×3.08	15) 0.89×2.31	16) 36×0.623
17) 30.1×0.63	18) 5.1×0.632	19) 12.1×0.65	20) 2.51×0.53

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21) 12.3×451	22) 21.6×7.54	23) 0.385×8.12	24) 9.37×0.528
25) 862.3×1.46	26) 34.03×7.36	27) 6.347×37.2	28) 0.1485×3.96
29) 0.37×10	30) 4.587×100	31) 4.07×1000	32) 8.6×10000
33) 82×0.1	34) 6.34×0.01	35) 0.21×0.001	36) 78.37×0.0001

37) What is the product of 25.03 and 8.36?
38) Multiply 0.5691 and 4.85.
39) What is the value of 2.516×4.56?
40) One-pound equals 0.45 kilogram. Ann weighs 98.46 lbs. on the bathroom scale. Determine her weight in kilograms.
41) 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):**

1) $93.6 \div 6$	2) $597.1 \div 7$	3) $163.8 \div 21$	4) $119.68 \div 34$
5) $8 \div 0.2$	6) $12 \div 0.4$	7) $510 \div 0.5$	8) $3316 \div 0.3$
9) $19.14 \div 0.66$	10) $6.164 \div 0.67$	11) $0.1452 \div 3.3$	12) $42.12 \div 0.003$
13) $812.3 \div 0.83$	14) $7.48 \div 2.4$	15) $0.00075 \div 0.25$	16) $0.4352 \div 0.034$
17) $133.03 \div 5.3$	18) $9.635 \div 0.41$	19) $12.864 \div 3.2$	20) $12.48 \div 0.16$
21) $6.76 \div 5.2$	22) $0.32984 \div 0.08$	23) $41.013 \div 0.63$	24) $7.308 \div 3.6$
25) $8.188 \div 2.3$	26) $0.03645 \div 0.15$	27) $0.4896 \div 0.32$	28) $7.952 \div 0.56$
29) $2.9684 \div 0.41$	30) $0.1134 \div 2.1$	31) $2.112 \div 0.33$	32) $8.188 \div 2.3$
33) $6.48 \div 1.6$	34) $1.155 \div 0.14$	35) $250.38 \div 0.039$	36) $0.0396 \div 0.024$

37) How many times does 0.23 go into 46.046?
38) 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?
39) What is the average speed in miles per hour of a car that travels 983.4 miles in 16.9 hours?
40) 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):

1) 0.2 2) 0.75 3) 0.375 4) 0.5 5) 1.5 6) 1.6
7) 3.2 8) 1.83 9) 1.4 10) 2.83 11) 3.17 12) 5.47

2. Convert the following percentage to decimals:

1) 0.2 2) 0.35 3) 1.25 4) 2.56 5) 7.8 6) 12 7) 31 8) 850
9) 0.0135 10) 0.1023 11) 0.03542 12) 0.05012 13) 0.0035 14) 0.00124 15) 0.000265 16) 0.0000458

3. Rounding:

1) To the nearest tenths	1.3	2.7	8.3
2) To the nearest hundredths	4.60	5.12	7.26
3) To the nearest tens	1250	360	4790
4) To the nearest thousands	48000	120000	423000

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

1) $2.\overline{3}$	2) $1.\overline{72}$	3) $12.6\overline{35}$	4) $8.\overline{56}$
5) $6.4\overline{21}$	6) $4.0\overline{23}$	7) $3.0\overline{213}$	8) $0.12\overline{34}$

5. Do the following additions with decimals

1) 2.953	2) 3.356	3) 13.814	4) 22.004	5) 18.219	6) 15.134
7) 8.97	8) 35.258	9) 41.586	10) 511	11) 7.342	12) 97.746
13) 120.6176	14) 131.688	15) 64.919	16) 54.4737	17) $37.44	18) 38.234km
19) 352.72miles	20) $218.28	21) 74.20 sec	22) 666.58 ft^2		

6. Subtract the following decimals:

1) 0.66	2) 0.332	3) 3.802	4) 5.896	5) 1.313	6) 0.042
7) 0.3576	8) 0.48	9) 0.652	10) 0.131	11) 1.7526	12) 0.0112
13) 0.328	14) 0.291	15) 0.044	16) -0.85	17) 0.09	18) 0.2406
19) -0.089	20) 0.222	21) 0.030	22) 0.461	23) 0.1717	24) 0.1385
25) 704.45	26) 166.558	27) 189.879	28) 8.837	29) 206.67	30) 740.417
31) 332.56	32) 164.12	33) 0.446	34) 0.156	35) $21.02	36) $434.70
37) Roger,44.773miles	38) 8.531	39) 0.139 m			

7. Multiply the following decimals:

1) 10.4	2) 14.4	3) 0.245	4) 0.0255	5) 56.16	6) 3.672
7) 416.52	8) 0.14105	9) 2.2456	10) 0.904	11) 3.456	12) 7.168
13) 27.159	14) 28.028	15) 2.0669	16) 22.428	17) 18.963	18) 3.2232
19) 7.865	20) 1.3303	21) 5547.3	22) 162.864	23) 3.1262	24) 4.94736
25) 1258.958	26) 250.4608	27) 236.1084	28) 0.58806	29) 3.7	30) 458.7
31) 4070	32) 86000	33) 8.2	34) 0.0634	35) 0.00021	36) 0.007837
37) 209.2508	38) 2.760135	39) 11.47296	40) 44.307g	41) 139.446cm	

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

1) 15.6	2) 85.3	3) 7.8	4) 3.52	5) 40	6) 30
7) 1020	8) 11053.3	9) 29	10) 9.2	11) 0.044	12) 14040
13) 978.6747	14) 3.116	15) 0.003	16) 12.8	17) 25.1	18) 23.5
19) 4.02	20) 78	21) 1.3	22) 4.123	23) 65.1	24) 2.03
25) 3.56	26) 0.243	27) 1.53	28) 14.2	29) 7.24	30) 0.054
31) 6.4	32) 3.56	33) 4.05	34) 8.25	35) 6420	36) 1.65
37) 200.2	38) 30248 ft.	39) 58.19 miles	40) 38.5 in.		