

Unit 1 Test Form A

Name _____ Date _____

Show your work.

Write the correct answer.

1. Peter lives $\frac{3}{10}$ mile from the soccer fields. How far does Peter walk in all if he walks from home to the soccer fields and back home?

$\frac{6}{10}$ or $\frac{3}{5}$ mile

2. Alton shoveled snow on $\frac{4}{6}$ of his driveway before lunch. Then he shoveled $\frac{2}{6}$ of it after lunch. How much more of his driveway did Alton shovel before lunch than after lunch?

$\frac{2}{6}$ or $\frac{1}{3}$

3. Marcus and his family spent $\frac{1}{2}$ of their vacation visiting relatives, and another $\frac{4}{12}$ of it at the beach. What fraction of their vacation did Marcus and his family spend either with relatives or at the beach?

$\frac{10}{12}$ or $\frac{5}{6}$

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Show your work.

4. Emilio puts the same number of flowers in each of two bunches. The first bunch is $\frac{3}{4}$ roses and the second bunch is $\frac{1}{3}$ roses. How much more of the first bunch is roses than the second bunch?

$\frac{5}{12}$

5. Camille uses $4\frac{2}{3}$ yards of white lace and $3\frac{2}{3}$ yards of ivory lace for a craft project. Write and solve an equation to show how much lace Camille uses in all.

Possible equation: $4\frac{2}{3} + 3\frac{2}{3} = 8\frac{1}{3}$; $8\frac{1}{3}$ yards

6. Write a fraction equivalent to $\frac{3}{4}$.

Possible answer: $\frac{6}{8}$

7. Write a fraction equivalent to $\frac{8}{12}$.

Possible answer: $\frac{2}{3}$

8. Write a fraction equivalent to $\frac{12}{20}$.

Possible answer: $\frac{3}{5}$

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Compare. Use $>$, $<$, or $=$.

9. $\frac{4}{5} > \frac{4}{6}$ 10. $\frac{7}{12} > \frac{3}{7}$ 11. $\frac{3}{10} < \frac{4}{11}$

Add or subtract.

12. $\frac{2}{3} + \frac{1}{3} = \frac{11}{15}$

13. $\frac{3}{4} - \frac{3}{4} = \frac{1}{12}$

14. $\frac{3\frac{2}{3}}{-2\frac{1}{4}} = \frac{17}{20}$

15. $\frac{1}{2} + 3\frac{1}{6} = 3\frac{5}{6}$

16. $\frac{8\frac{7}{8}}{-3\frac{2}{3}} = 5\frac{5}{24}$

17. $\frac{17}{8} + 1\frac{1}{2} = 3\frac{3}{40}$

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Write an equation. Then solve. *Show your work.*

18. Kate poured $\frac{3}{4}$ cup of orange juice for herself and another $\frac{7}{8}$ cup for her sister. How much orange juice did Kate pour in all?
Possible answer: $x = \frac{3}{4} + \frac{7}{8}$; $1\frac{1}{8}$ cups

19. Spencer is riding his bicycle $2\frac{7}{10}$ miles to the park. He rides $1\frac{1}{4}$ miles and stops to take a drink. How much farther does Spencer have to ride to the park?
Possible answer: $x = 2\frac{7}{10} - 1\frac{1}{4}$; $1\frac{9}{20}$ miles

20. **Extended Response** Angela mixes $6\frac{7}{8}$ pints of fruit juice and $4\frac{1}{4}$ pints of ginger ale to make punch for a party. She has 9 pints of punch left at the end of the party. How much punch did Angela serve at the party? Explain how you know your answer is reasonable.
Possible explanation: $6\frac{7}{8}$ rounds to 7 and $4\frac{1}{4}$ rounds to 4. Angela made about 11 pints of punch and had 9 pints left over. So, she served about 2 pints.

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Solve. Explain how you know your answer is reasonable. Show your work.

23. The distance around a park is 308.94 meters. If Nikki walks around the park twice, how many meters does she walk?
617.88 meters; $309 + 309 = 618$, so my answer is reasonable.

24. Rey bought a skateboard for \$89.98 and a helmet for \$44.85 on tax-free day at a sports store. The store clerk gave Rey a discount of \$18.50 for both items. If Rey gave the clerk \$150, how much change should he receive?
 $\$33.67; \$90 + \$40 - \$20 = \$110; \$150 - \$110 = \40 , so my answer is reasonable.

25. **Extended Response** At Bryan's school, the two fastest runners in the 100-yard dash had race times of 12.19 seconds and 12.38 seconds.
Estimate and then find how much faster the first runner was than the second runner. Explain how you found your answers.
Possible answer: 0.19 second; Possible explanation: For the estimate, I rounded each speed to the nearest tenth and subtracted: $12.4 - 12.2 = 0.2$; For the exact answer, I subtracted $12.38 - 12.19 = 0.19$.

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Unit 2 Test, Form A

Unit 2 Test Form B

Name _____ Date _____

Fill in the circle for the correct answer.

Use the Associative Property to add.

1. $4.64 + 2.2 + 3.8 =$ _____
 A 9.64
 B 9.74
 C 10.64
 D 10.74

2. $4.45 + 3.55 + 5.68 =$ _____
 J 13.68
 G 13.58
 H 12.68
 K 12.58

3. In which number is the value of the digit 6 ten times the value of the digit 6 in 1.463?
 A 0.486
 B 1.642
 C 4.765
 D 6.014

4. In which number is the value of the digit 9 one tenth the value of the digit 9 in 3.974?
 F 3.439
 G 3.947
 H 4.891
 K 9.014

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Unit 2 Test, Form B

Name _____ Date _____

5. Which shows 1,018.062 written in expanded form?
 (A) $1,000 + 100 + 8 + 0.6 + 0.02$
 (B) $1,000 + 100 + 80 + 0.6 + 0.002$
 (C) $1,000 + 10 + 8 + 0.06 + 0.02$
 (D) $1,000 + 10 + 8 + 0.06 + 0.002$

Choose the number written in another form.

6. eight thousand and two hundred fourteen thousandths in standard form
 (F) 8,200.214
 (G) 8,200.014
 (H) 8,000.214
 (K) 8,000.014

7. 3.02 in word form
 (A) three and two tenths
 (B) three and two thousandths
 (C) three and two hundreds
 (D) three and two hundredths

8. 9.635 in expanded form using powers of ten
 (A) $(9 \times 1) + (6 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (5 \times \frac{1}{1,000})$
 (B) $(9 \times 1) + (6 \times \frac{1}{100}) + (3 \times \frac{1}{10}) + (5 \times 1)$
 (C) $(9 \times 1) + (6 \times \frac{1}{100}) + (3 \times \frac{1}{10}) + (5 \times \frac{1}{1,000})$
 (D) $(9 \times 1) + (6 \times \frac{1}{1,000}) + (3 \times \frac{1}{100}) + (5 \times \frac{1}{10})$

9. $(4 \times 10) + (9 \times 1) + (6 \times \frac{1}{100}) + (1 \times \frac{1}{1,000})$ in standard form
 (A) 49.006
 (B) 49.061
 (C) 49.601
 (D) 49.61

10. In which number is the value of the digit 9 the greatest?
 (F) 28.109
 (G) 34.963
 (H) 59.004
 (K) 87.590

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Name _____ Date _____

11. In which number does the digit 7 have a value of 0.007?
 (A) 4.907
 (B) 5.074
 (C) 7.602
 (D) 9.701

Choose the symbol that compares the numbers correctly.

12. 651 $\text{\textcircled{A}}$ 7.904
 (F) $<$ (G) $>$ (H) $=$ (K) $+$

13. 0.090 $\text{\textcircled{B}}$ 0.9
 (A) $<$ (C) $=$ (D) $+$

14. 7.07 $\text{\textcircled{F}}$ 7.070
 (E) $<$ (G) $>$ (H) $=$ (K) $+$

15. 3.241 $\text{\textcircled{A}}$ 0.957
 (A) $<$ (B) $>$ (C) $=$ (D) $+$

16. What is 82.761 rounded to the nearest whole number?
 (F) 82 (G) 82.7 (H) 82.8 (J) 83

17. What is 7.348 rounded to the nearest hundredth?
 (A) 7.30 (B) 7.34 (C) 7.35 (D) 7.40

18. What is 11.876 rounded to the nearest tenth?
 (E) 11.8 (G) 11.87 (H) 11.88 (J) 11.9

Add or subtract.

19.
$$\begin{array}{r} 429.37 \\ + 51.84 \\ \hline \end{array}$$

 (A) 470.11 (B) 471.21 (C) 480.11 (D) 481.21

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20.
$$\begin{array}{r} 3.24 \\ - 2.86 \\ \hline \end{array}$$
 Ⓐ 0.38 Ⓑ 0.48 Ⓒ 1.38 Ⓓ 1.48

21.
$$\begin{array}{r} 11.34 \\ + 0.77 \\ \hline \end{array}$$
 Ⓐ 11.01 Ⓑ 11.11 Ⓒ 12.11 Ⓓ 12.21

22.
$$\begin{array}{r} 14.37 \\ - 5.91 \\ \hline \end{array}$$
 Ⓐ 8.36 Ⓑ 8.46 Ⓒ 9.36 Ⓓ 9.46

Solve. *Show your work.*

23. Henry rode his bike 3.87 kilometers to the mall. Then he rode 2.74 kilometers to the park. How many kilometers did Henry ride his bike in all?

Ⓐ 5.51 kilometers Ⓑ 5.61 kilometers Ⓒ 6.51 kilometers Ⓓ 6.61 kilometers

24. Laisha paid for her and a friend to go to the movies. She paid \$9.50 for two movie tickets and \$13.93 for popcorn and drinks. Laisha had \$50.34 in her wallet to pay for everything. How much money does she have left?

Ⓐ \$26.81 Ⓑ \$27.91 Ⓒ \$26.91 Ⓓ \$33.11

25. One kitten in a litter weighs 98.43 grams. Another kitten weighs 97.57 grams. How many more grams does the heavier kitten weigh?

Ⓐ 0.86 gram Ⓑ 0.96 gram Ⓒ 1.86 grams Ⓓ 1.96 grams

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Name _____ Date _____

ACTIVITY Fish Tales

Ray, Ed, and Jin go on a fishing trip. One of their favorite activities is having fishing contests. The table shows the masses of fish they will enter in the contests.

Masses of Fish Caught (in kg)			
	Thursday	Friday	Saturday
Ray	5.3	4.65	5.15
Ed	4.5	5.9	5.1
Jin	5.01	5.25	5.75

- The "Little Fish" contest rules are:
 - Each fish must have a mass of less than 5.25 kilograms.
 - A person can enter two fish, but there must be a difference of at least 0.5 kilogram between the two fish masses.
 Which are three possible entries for this contest?
 Possible response: 5.1 kg for one fish ($5.1 < 5.25$), or 4.65 kg for one fish ($4.65 < 5.25$), or 4.5 kg and 5.1 kg ($5.1 - 4.5 = 0.6; 0.6 > 0.5$)
- In the "Two Fish" contest, two people enter one fish each. The total mass of the two fish must be between 10 kg and 11 kg. Two people can enter more than once. Will all three friends be able to enter the contest? Support your answer using estimation or an exact answer.
 Possible response: Yes; Ray and Ed: $5.3 \text{ kg} + 5.1 \text{ kg} = 10.4 \text{ kg}$; Ray and Jin: $5.15 \text{ kg} + 5.01 \text{ kg} = 10.15 \text{ kg}$.
- The entry slips of approved entries for each contest are placed in a barrel and a winner is drawn for each contest. What would have to be true for all three friends to win a contest? Explain your reasoning.
 Answers may vary; the student should recognize that all three friends are eligible for both contests, and all could win, but that the winner of the "Little Fish" contest has to be different than the winners of the "Two Fish" contest for all three friends to win a contest.

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