

Heatherwood Mathletes  
Purple Belt Home Exercises  
December 2, 2004

Name \_\_\_\_\_



Date \_\_\_\_\_

## Multiplication

(Answer ID # 0854327)

**Complete.**

1. $\begin{array}{r} 62 \\ \times 11 \\ \hline \end{array}$	2. $\begin{array}{r} 82 \\ \times 74 \\ \hline \end{array}$	3. $\begin{array}{r} 24 \\ \times 18 \\ \hline \end{array}$	4. $\begin{array}{r} 59 \\ \times 13 \\ \hline \end{array}$	5. $\begin{array}{r} 64 \\ \times 79 \\ \hline \end{array}$
6. $\begin{array}{r} 27 \\ \times 36 \\ \hline \end{array}$	7. $\begin{array}{r} 87 \\ \times 62 \\ \hline \end{array}$	8. $\begin{array}{r} 23 \\ \times 78 \\ \hline \end{array}$	9. $\begin{array}{r} 87 \\ \times 37 \\ \hline \end{array}$	10. $\begin{array}{r} 64 \\ \times 13 \\ \hline \end{array}$
11. $\begin{array}{r} 44 \\ \times 87 \\ \hline \end{array}$	12. $\begin{array}{r} 35 \\ \times 52 \\ \hline \end{array}$	13. $\begin{array}{r} 12 \\ \times 79 \\ \hline \end{array}$	14. $\begin{array}{r} 28 \\ \times 34 \\ \hline \end{array}$	15. $\begin{array}{r} 97 \\ \times 59 \\ \hline \end{array}$
16. $\begin{array}{r} 41 \\ \times 31 \\ \hline \end{array}$	17. $\begin{array}{r} 95 \\ \times 46 \\ \hline \end{array}$	18. $\begin{array}{r} 29 \\ \times 70 \\ \hline \end{array}$	19. $\begin{array}{r} 81 \\ \times 14 \\ \hline \end{array}$	20. $\begin{array}{r} 11 \\ \times 87 \\ \hline \end{array}$

Name \_\_\_\_\_



Date \_\_\_\_\_

## Multiplication

(Answer ID # 0484024)

**Complete.**

1. Caleb thought it would be better if he built four toolboxes instead of two. Each toolbox has four sides. How many sides will there be in all?	2. To celebrate Read a Book Month the Mountain Springs town library is giving a bookmark to everyone who reads at least five books during December. The bookmarks cost seven cents each. The library decided to buy 400 bookmarks. How much did the bookmarks cost in all?
3. At the market in Tenochtitlan, Pilar has twelve pounds of fruit to sell. The price for the fruit is \$3 per half pound. Pilar sold five pounds. How much money did she earn?	4. For Hoodie Hoo Day Nicholas made lollipops for everyone in his class. He made them just like he had learned in his 4-H Club. He made some of them red, some blue, and some green. There were 35 lollipops in all. $\frac{4}{5}$ of them were red. The rest were blue and green. How many lollipops were not red?
5. Each word on section 1 of my spelling test was worth four points and I got twelve out of fifteen words right. In section 2, I received nine points. What was my total score for the spelling test?	6. Makayla spent a lot of time on her project for Columbus Day. On Monday she worked for 1 hour and 41 minutes on making a poster. On Tuesday she worked for 2 hours and 35 minutes drawing a picture of Columbus. On Wednesday she spent three hours building a model of a Taino village. On Thursday she worked another 2 hours and 7 minutes putting everything together. How long did she work in all?

Name \_\_\_\_\_



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## Fractions

(Answer ID # 0609023)

Circle the equivalent fraction.

1.	$\frac{2}{3}$	2.	$\frac{5}{6}$				
$\frac{6}{3}$	$\frac{6}{8}$	$\frac{10}{15}$	$\frac{3}{2}$	$\frac{10}{9}$	$\frac{20}{24}$	$\frac{6}{10}$	$\frac{1}{5}$
3.	$\frac{4}{9}$	4.	$\frac{8}{10}$				
$\frac{12}{17}$	$\frac{6}{11}$	$\frac{5}{6}$	$\frac{8}{18}$	$\frac{8}{4}$	$\frac{8}{9}$	$\frac{24}{30}$	$\frac{10}{8}$
5.	$\frac{3}{7}$	6.	$\frac{2}{4}$				
$\frac{9}{13}$	$\frac{9}{5}$	$\frac{1}{4}$	$\frac{6}{14}$	$\frac{12}{14}$	$\frac{10}{20}$	$\frac{2}{6}$	$\frac{8}{10}$
7.	$\frac{9}{11}$	8.	$\frac{1}{2}$				
$\frac{27}{33}$	$\frac{14}{12}$	$\frac{12}{14}$	$\frac{50}{60}$	$\frac{4}{8}$	$\frac{7}{10}$	$\frac{1}{5}$	$\frac{2}{1}$
9.	$\frac{4}{5}$	10.	$\frac{3}{12}$				
$\frac{8}{9}$	$\frac{9}{11}$	$\frac{5}{4}$	$\frac{16}{20}$	$\frac{6}{24}$	$\frac{8}{12}$	$\frac{3}{2}$	$\frac{6}{15}$

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## Fractions

(Answer ID # 0183104)

**Write each fraction in simplest form.**

1. $\frac{2}{11}$	2. $\frac{4}{24}$	3. $\frac{24}{48}$	4. $\frac{5}{35}$	5. $\frac{4}{12}$
6. $\frac{10}{50}$	7. $\frac{9}{27}$	8. $\frac{10}{22}$	9. $\frac{18}{36}$	10. $\frac{3}{30}$
11. $\frac{10}{35}$	12. $\frac{4}{32}$	13. $\frac{8}{24}$	14. $\frac{3}{9}$	15. $\frac{18}{42}$
16. $\frac{12}{30}$	17. $\frac{1}{11}$	18. $\frac{10}{24}$	19. $\frac{8}{36}$	20. $\frac{6}{36}$
21. $\frac{20}{45}$	22. $\frac{18}{48}$	23. $\frac{4}{9}$	24. $\frac{9}{21}$	25. $\frac{3}{33}$
26. $\frac{16}{32}$	27. $\frac{5}{10}$	28. $\frac{15}{45}$	29. $\frac{5}{12}$	30. $\frac{7}{49}$
31. $\frac{15}{50}$	32. $\frac{12}{24}$	33. $\frac{20}{48}$	34. $\frac{14}{42}$	35. $\frac{6}{20}$
36. $\frac{9}{24}$	37. $\frac{16}{44}$	38. $\frac{25}{50}$	39. $\frac{9}{18}$	40. $\frac{6}{12}$
41. $\frac{12}{48}$	42. $\frac{6}{14}$	43. $\frac{5}{11}$	44. $\frac{14}{49}$	45. $\frac{12}{33}$
46. $\frac{7}{42}$	47. $\frac{8}{18}$	48. $\frac{2}{8}$	49. $\frac{10}{30}$	50. $\frac{6}{42}$

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## Add Fractions

(Answer ID # 0281901)

Find the sum. Write your answer as a mixed number in simplest form.

1. $\frac{3}{7} + \frac{1}{2} =$	2. $\frac{1}{5} + \frac{1}{2} =$	3. $\frac{4}{6} + \frac{1}{3} =$	4. $\frac{1}{2} + \frac{4}{6} =$
5. $\frac{1}{3} + \frac{8}{9} =$	6. $\frac{3}{4} + \frac{2}{3} =$	7. $\frac{7}{8} + \frac{1}{4} =$	8. $\frac{2}{6} + \frac{6}{12} =$
9. $\frac{4}{8} + \frac{1}{4} =$	10. $\frac{1}{3} + \frac{5}{6} =$	11. $\frac{1}{2} + \frac{4}{5} =$	12. $\frac{3}{4} + \frac{2}{12} =$
13. $\frac{2}{7} + \frac{1}{2} =$	14. $\frac{5}{9} + \frac{1}{3} =$	15. $\frac{2}{5} + \frac{7}{10} =$	16. $\frac{1}{3} + \frac{1}{2} =$
17. $\frac{5}{7} + \frac{1}{2} =$	18. $\frac{3}{5} + \frac{1}{2} =$	19. $\frac{6}{9} + \frac{1}{2} =$	20. $\frac{5}{8} + \frac{1}{2} =$
21. $\frac{1}{6} + \frac{3}{12} =$	22. $\frac{7}{9} + \frac{1}{3} =$	23. $\frac{2}{4} + \frac{1}{2} =$	24. $\frac{1}{2} + \frac{5}{8} =$
25. $\frac{1}{5} + \frac{2}{3} =$	26. $\frac{3}{8} + \frac{1}{4} =$	27. $\frac{5}{6} + \frac{1}{3} =$	28. $\frac{2}{3} + \frac{7}{12} =$
29. $\frac{1}{2} + \frac{3}{4} =$	30. $\frac{2}{3} + \frac{4}{5} =$	31. $\frac{3}{6} + \frac{1}{9} =$	32. $\frac{1}{4} + \frac{5}{8} =$
33. $\frac{4}{7} + \frac{1}{2} =$	34. $\frac{8}{9} + \frac{1}{2} =$	35. $\frac{1}{2} + \frac{6}{10} =$	36. $\frac{7}{8} + \frac{2}{4} =$
37. $\frac{3}{4} + \frac{4}{6} =$	38. $\frac{1}{3} + \frac{1}{5} =$	39. $\frac{7}{9} + \frac{2}{3} =$	40. $\frac{4}{6} + \frac{3}{4} =$

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## Fractions

(Answer ID # 0664033)

**Complete. Write your answer as a mixed number in simplest form.**

1. $6\frac{1}{2} + 3\frac{1}{2} =$	2. $\frac{1}{4} + 1\frac{1}{4} =$	3. $3\frac{6}{9} - 2\frac{2}{9} =$	4. $5\frac{2}{6} - 4\frac{3}{6} =$
5. $4\frac{2}{3} - \frac{2}{3} =$	6. $2\frac{5}{8} + 4\frac{7}{8} =$	7. $1\frac{4}{7} - \frac{6}{7} =$	8. $3\frac{2}{5} + 2\frac{2}{5} =$
9. $4\frac{3}{9} + 3\frac{6}{9} =$	10. $6\frac{5}{8} - 1\frac{7}{8} =$	11. $\frac{2}{4} - \frac{1}{4} =$	12. $2\frac{1}{2} + 6\frac{1}{2} =$
13. $5\frac{2}{3} - 5\frac{1}{3} =$	14. $6\frac{3}{6} + 4\frac{5}{6} =$	15. $5\frac{4}{7} - 3\frac{4}{7} =$	16. $\frac{4}{5} + 4\frac{1}{5} =$
17. $6\frac{2}{8} - 5\frac{2}{8} =$	18. $5\frac{3}{6} + 3\frac{2}{6} =$	19. $3\frac{7}{9} - 3\frac{3}{9} =$	20. $2\frac{2}{5} + 6\frac{1}{5} =$
21. $4\frac{3}{4} - 1\frac{3}{4} =$	22. $1\frac{1}{2} + 5\frac{1}{2} =$	23. $3\frac{2}{3} - 2\frac{2}{3} =$	24. $1\frac{4}{7} + 5\frac{3}{7} =$
25. $\frac{3}{5} - \frac{1}{5} =$	26. $5\frac{5}{7} + 6\frac{5}{7} =$	27. $6\frac{1}{9} + \frac{7}{9} =$	28. $6\frac{2}{3} - 4\frac{2}{3} =$
29. $4\frac{1}{6} - 1\frac{1}{6} =$	30. $\frac{1}{4} + 3\frac{1}{4} =$	31. $2\frac{3}{8} - 1\frac{2}{8} =$	32. $3\frac{1}{2} + 6\frac{1}{2} =$
33. $1\frac{5}{9} + 5\frac{3}{9} =$	34. $3\frac{1}{3} + 3\frac{1}{3} =$	35. $1\frac{3}{5} - 1\frac{2}{5} =$	36. $5\frac{6}{8} - 5\frac{2}{8} =$
37. $6\frac{1}{4} + 3\frac{3}{4} =$	38. $2\frac{4}{7} + \frac{1}{7} =$	39. $\frac{4}{6} - \frac{3}{6} =$	40. $4\frac{1}{2} - 4\frac{1}{2} =$

Name \_\_\_\_\_

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# SuperKids Math Worksheet

## Multiplication Problems with Fractions

$$\frac{2}{4} \times \frac{2}{2} =$$

$$\frac{4}{4} \times \frac{2}{5} =$$

$$\frac{3}{4} \times \frac{2}{2} =$$

$$\frac{2}{2} \times \frac{3}{3} =$$

$$\frac{6}{6} \times \frac{7}{7} =$$

$$\frac{2}{3} \times \frac{4}{7} =$$

$$\frac{2}{3} \times \frac{4}{4} =$$

$$\frac{2}{4} \times \frac{3}{6} =$$

$$\frac{2}{4} \times \frac{6}{6} =$$

$$\frac{5}{5} \times \frac{2}{2} =$$

$$\frac{2}{2} \times \frac{3}{6} =$$

$$\frac{7}{7} \times \frac{3}{4} =$$

Create Answer Sheet #51420

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Name \_\_\_\_\_



Date \_\_\_\_\_

## Fractions

(Answer ID # 0325497)

**Solve. Write your answer as a mixed number in simplest form.**

1. Taylor picked ten-elevenths of a basket of apples yesterday. Today she picked four-elevenths of a basket of apples. What part of a basket of apples has Taylor picked in all?	2. On Monday Andrew picked one-fourth of a pound of strawberries. On Tuesday he picked seven-eighths of a pound of strawberries. What was the total weight of the strawberries Andrew picked?
3. Christina ate five-twelfths of her orange before lunch and one-fourth of her orange after lunch. How much of her orange did she eat in all?	4. John used a third of a foot of tape to wrap Madison's present. He used one-ninth of a foot of tape to wrap Madison's present. How much more tape did he use on Madison's present than Olivia's?
5. Ryan measured the two bugs he found. The cricket was seven-eighths of an inch long. The ant was half of an inch long. How much longer was the cricket than the ant?	6. There is six-sevenths of a gallon of Kool-Aid® in the pitcher. Three-sevenths of a gallon of the Kool-Aid® is for making popsicles in the freezer. The rest is for drinking. How much is for drinking?
7. Olivia put two-sevenths of a cup of peanut butter chips and half of a cup of chocolate chips in a bowl. How many cups of chips did she have in all?	8. On Friday Ethan ate a third of a pound of cherries. On Saturday he ate half of a pound of cherries. What was the total weight of the cherries Ethan ate?
9. Rebecca made seven-tenths of a gallon of tea. Her family drank one-fifth gallon of it. How much of the tea was left?	10. Kevin mixed two-fifths of a can of white paint and half of a can of blue paint to put on his bedroom walls. How much paint did he have in all?
11. Kayla added half of a cup of flour to half of a cup of cornmeal to make cornmeal muffins. How much of the flour and cornmeal mixture did she have?	12. There was three-fourths of a gallon of plain milk in the refrigerator. There was also half of a gallon of chocolate milk. How much more plain milk was there than chocolate milk?

## Algebra Practice Problems

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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Worksheet generated at **www.math.com**

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1.)  $x + 10 = 14$

2.)  $11 = x + 9$

3.)  $6 = x + 3$

4.)  $x / 3 = 1$

5.)  $x / 3 = 4$

6.)  $x + 2 = 9$

7.)  $x + 1 = 4$

8.)  $21 = x + 9$

9.)  $5x = 35$

10.)  $4x = 28$

11.)  $9 + 5x = 9$

12.)  $3x + 10 = 10$

13.)  $7x + 5 = 89$

14.)  $6x + 9 = 21$

Name \_\_\_\_\_



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## Evaluate Expressions

(Answer ID # 0813131)

Complete by evaluating each expression.

1. $6r - 2$ for $r = 2$	2. $4s - 7$ for $s = 6$	3. $8w$ for $w = 8$
4. $7b$ for $b = 4$	5. $\frac{k}{4}$ for $k = 28$	6. $2a + 8$ for $a = 5$
7. $z \div 7 + 20$ for $z = 35$	8. $5j + 12$ for $j = 9$	9. $t \div 6$ for $t = 24$
10. $9f$ for $f = 2$	11. $3m + 14$ for $m = 3$	12. $8p + 26$ for $p = 8$
13. $2x$ for $x = 6$	14. $3v - 4$ for $v = 7$	15. $\frac{e}{3}$ for $e = 24$
16. $6c - 5$ for $c = 4$	17. $4h + 39$ for $h = 9$	18. $5q$ for $q = 4$
19. $\frac{g}{8} - 5$ for $g = 48$	20. $9y - 25$ for $y = 5$	21. $7d - 9$ for $d = 6$
22. $u \div 2 - 1$ for $u = 4$	23. $4n$ for $n = 7$	24. $2u + 6$ for $u = 3$
25. $7d$ for $d = 7$	26. $3w - 4$ for $w = 2$	27. $e \div 5 + 19$ for $e = 45$

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## Algebra

(Answer ID # 0992598)

**Complete.**

1. If a number is increased by 34, the result is 73. What is the number?

2. Ninety-one more than a number is one hundred forty-eight. What is the number?

3. A number minus 33 is forty-seven. What is the number?

4. Four times a number, decreased by fifty, equals two. What is the number?