



Solve each problem. Answer as an improper fraction (if possible).

1) $\frac{1}{2} \times \frac{4}{5} =$

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

3) $\frac{1}{3} \times \frac{2}{3} =$

4) $\frac{4}{5} \times \frac{1}{2} =$

5) $\frac{1}{3} \times \frac{1}{2} =$

6) $\frac{1}{2} \times \frac{3}{4} =$

7) $\frac{1}{2} \times \frac{4}{5} =$

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

9) $\frac{4}{5} \times \frac{1}{2} =$

10) $\frac{2}{5} \times \frac{1}{5} =$

11) $\frac{2}{3} \times \frac{1}{3} =$

12) $\frac{3}{5} \times \frac{3}{5} =$

Answers

1. _____

2. _____

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12. _____



Solve each problem. Answer as an improper fraction (if possible).

1) $\frac{1}{3} \times \frac{4}{5} =$

2) $\frac{4}{5} \times \frac{1}{2} =$

3) $\frac{1}{2} \times \frac{1}{3} =$

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

5) $\frac{1}{2} \times \frac{2}{5} =$

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9) $\frac{3}{4} \times \frac{1}{2} =$

10) $\frac{1}{2} \times \frac{1}{5} =$

11) $\frac{2}{3} \times \frac{4}{5} =$

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

Answers

1. _____

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12. _____



Determine the answer using estimation.

Answers

When multiplying a fraction and a whole number you can estimate the answer by remembering that the fraction is just part of a number.

$$5 \times 6 \frac{2}{3} =$$

In the example above, $6 \frac{2}{3}$ is larger than 6 but less than 7.

So we know the answer is going to be between 5×6 and 5×7 .

$$5 \times 6 \frac{2}{3} = 33 \frac{1}{3}$$

The actual answer is $33 \frac{1}{3}$ which is between 5×6 (30) and 5×7 (35).

- 1) $2 \times 5 \frac{2}{9} =$ A. $10 \frac{4}{9}$ B. $8 \frac{4}{9}$ C. $13 \frac{4}{9}$ D. $7 \frac{2}{9}$
- 2) $9 \frac{1}{8} \times 3 =$ A. $31 \frac{3}{8}$ B. $27 \frac{3}{8}$ C. $33 \frac{3}{8}$ D. $24 \frac{1}{8}$
- 3) $2 \frac{1}{5} \times 5 =$ A. 8 B. 20 C. 7 D. 11
- 4) $8 \frac{3}{7} \times 7 =$ A. 59 B. $66 \frac{3}{7}$ C. 55 D. $53 \frac{3}{7}$
- 5) $4 \frac{6}{10} \times 4 =$ A. $14 \frac{4}{10}$ B. $13 \frac{4}{10}$ C. $18 \frac{4}{10}$ D. $22 \frac{4}{10}$
- 6) $9 \times 7 \frac{1}{3} =$ A. 66 B. 54 C. 61 D. 73
- 7) $3 \frac{1}{8} \times 9 =$ A. $45 \frac{1}{8}$ B. $28 \frac{1}{8}$ C. $26 \frac{1}{8}$ D. $37 \frac{1}{8}$
- 8) $5 \times 8 \frac{2}{4} =$ A. $46 \frac{2}{4}$ B. $35 \frac{2}{4}$ C. $48 \frac{2}{4}$ D. $42 \frac{2}{4}$
- 9) $9 \frac{4}{7} \times 9 =$ A. $72 \frac{1}{7}$ B. $79 \frac{1}{7}$ C. $86 \frac{1}{7}$ D. $92 \frac{1}{7}$
- 10) $7 \frac{7}{8} \times 3 =$ A. $23 \frac{5}{8}$ B. $27 \frac{7}{8}$ C. $18 \frac{5}{8}$ D. $19 \frac{5}{8}$
- 11) $8 \times 5 \frac{1}{2} =$ A. $37 \frac{1}{2}$ B. 44 C. 49 D. 32
- 12) $8 \times 4 \frac{4}{9} =$ A. $30 \frac{5}{9}$ B. $43 \frac{5}{9}$ C. $42 \frac{5}{9}$ D. $35 \frac{5}{9}$

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12. _____



Determine the answer using estimation.

Answers

When multiplying a fraction and a whole number you can estimate the answer by remembering that the fraction is just part of a number.

$$5 \times 6 \frac{2}{3} =$$

In the example above, $6 \frac{2}{3}$ is larger than 6 but less than 7.

So we know the answer is going to be between 5×6 and 5×7 .

$$5 \times 6 \frac{2}{3} = 33 \frac{1}{3}$$

The actual answer is $33 \frac{1}{3}$ which is between 5×6 (30) and 5×7 (35).

- 1) $5 \frac{5}{8} \times 9 =$ A. $44 \frac{5}{8}$ B. $50 \frac{5}{8}$ C. $36 \frac{5}{8}$ D. $57 \frac{5}{8}$
- 2) $6 \frac{2}{6} \times 5 =$ A. $31 \frac{4}{6}$ B. $40 \frac{4}{6}$ C. $28 \frac{4}{6}$ D. $29 \frac{2}{6}$
- 3) $3 \frac{2}{5} \times 4 =$ A. $9 \frac{3}{5}$ B. $10 \frac{3}{5}$ C. $13 \frac{3}{5}$ D. $8 \frac{3}{5}$
- 4) $4 \times 3 \frac{4}{9} =$ A. $9 \frac{7}{9}$ B. $13 \frac{7}{9}$ C. $17 \frac{7}{9}$ D. $20 \frac{7}{9}$
- 5) $6 \times 9 \frac{5}{7} =$ A. $58 \frac{2}{7}$ B. $48 \frac{2}{7}$ C. $61 \frac{2}{7}$ D. $51 \frac{2}{7}$
- 6) $7 \frac{4}{5} \times 7 =$ A. $54 \frac{3}{5}$ B. $57 \frac{3}{5}$ C. $42 \frac{3}{5}$ D. $63 \frac{3}{5}$
- 7) $5 \times 5 \frac{3}{6} =$ A. $32 \frac{3}{6}$ B. $35 \frac{3}{6}$ C. $27 \frac{3}{6}$ D. $33 \frac{3}{6}$
- 8) $9 \times 6 \frac{3}{4} =$ A. $51 \frac{3}{4}$ B. $45 \frac{3}{4}$ C. $60 \frac{3}{4}$ D. $64 \frac{3}{4}$
- 9) $9 \frac{2}{3} \times 2 =$ A. $21 \frac{1}{3}$ B. $19 \frac{1}{3}$ C. $17 \frac{1}{3}$ D. $15 \frac{2}{3}$
- 10) $8 \times 8 \frac{1}{3} =$ A. $61 \frac{2}{3}$ B. $75 \frac{2}{3}$ C. $56 \frac{2}{3}$ D. $66 \frac{2}{3}$
- 11) $3 \frac{1}{2} \times 3 =$ A. $14 \frac{1}{2}$ B. $8 \frac{1}{2}$ C. $10 \frac{1}{2}$ D. $15 \frac{1}{2}$
- 12) $6 \times 6 \frac{6}{8} =$ A. $45 \frac{6}{8}$ B. $40 \frac{4}{8}$ C. $33 \frac{6}{8}$ D. $44 \frac{4}{8}$

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- 9. _____
- 10. _____
- 11. _____
- 12. _____



Solve each problem.

Answers

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| <p>1) Each day a company used $\frac{2}{8}$ of a box of paper. How many boxes would they have used after 5 days?</p> | <p>1. _____</p> |
| <p>2) A pitcher could hold $\frac{1}{2}$ of a gallon of water. If Sam filled up 8 pitchers, how much water would he have?</p> | <p>2. _____</p> |
| <p>3) Victor stacked 6 pieces of wood on top of one another. If each piece was $\frac{6}{8}$ of a foot tall, how tall was his pile?</p> | <p>3. _____</p> |
| <p>4) Cody ran 3 miles on his first day of training. The next day he ran $\frac{2}{12}$ that distance. How far did he run the second day?</p> | <p>4. _____</p> |
| <p>5) It takes $\frac{6}{8}$ of a box of nails to build a bird house. If you wanted to build 9 bird houses, how many boxes would you need?</p> | <p>5. _____</p> |
| <p>6) A group of 6 friends each received $\frac{2}{5}$ of a pound of candy. How much candy did they receive total?</p> | <p>6. _____</p> |
| <p>7) Billy lived 9 miles from his school. If he rode his bike $\frac{6}{12}$ of the distance and then walked the rest, how far did he ride his bike?</p> | <p>7. _____</p> |
| <p>8) A chef cooked 6 kilograms of mashed potatoes for a dinner party. If the guests only ate $\frac{2}{10}$ of the amount he cooked, how much did they eat?</p> | <p>8. _____</p> |
| <p>9) A bakery used 5 cups of flour to make a full size cake. If they wanted to make a cake that was $\frac{2}{3}$ the size, how many cups of flour would they need?</p> | <p>9. _____</p> |
| <p>10) Paul's hair was originally 5 inches long. He asked her hair dresser to cut $\frac{7}{8}$ of it off. How many inches did he have cut off?</p> | <p>10. _____</p> |
| <p>11) A dog groomer could clean 8 dogs in an hour. How many could they clean in $\frac{1}{3}$ of an hour?</p> | <p>11. _____</p> |
| <p>12) Faye made spicy and regular chili for the chili cook-off. She made enough spicy to fill up $\frac{4}{6}$ of a pot. If she made 9 times as much regular, how many pots of regular did she have?</p> | <p>12. _____</p> |



Solve each problem.

Answers

- | | |
|---|------------------|
| <p>1) A bakery used 6 cups of flour to make a full size cake. If they wanted to make a cake that was $\frac{1}{8}$ the size, how many cups of flour would they need?</p> | <p>1. _____</p> |
| <p>2) On Monday it snowed 4 inches. The next day it snowed $\frac{1}{5}$ that amount. How much did it snow on the second day?</p> | <p>2. _____</p> |
| <p>3) When Debby's 3DS is fully charged it lasts for 2 hours. If she only charged it $\frac{6}{8}$ full, how long would it last?</p> | <p>3. _____</p> |
| <p>4) Haley needed $\frac{5}{6}$ of a cup of water for 1 flower. If she had 7 flowers how many cups would she need?</p> | <p>4. _____</p> |
| <p>5) A chef cooked 7 kilograms of mashed potatoes for a dinner party. If the guests only ate $\frac{3}{10}$ of the amount he cooked, how much did they eat?</p> | <p>5. _____</p> |
| <p>6) A dog groomer could clean 2 dogs in an hour. How many could they clean in $\frac{5}{8}$ of an hour?</p> | <p>6. _____</p> |
| <p>7) A restaurant used 3 pounds of potatoes during a lunch rush. If they used $\frac{4}{8}$ as much beef, how many pounds of beef did they use?</p> | <p>7. _____</p> |
| <p>8) Will lived 6 miles from his school. If he rode his bike $\frac{5}{8}$ of the distance and then walked the rest, how far did he ride his bike?</p> | <p>8. _____</p> |
| <p>9) Tom's hair was originally 4 inches long. He asked her hair dresser to cut $\frac{1}{3}$ of it off. How many inches did he have cut off?</p> | <p>9. _____</p> |
| <p>10) A farmer gives each of his horses $\frac{7}{8}$ of a salt lick a month. If he has 8 horses, how many salt licks does he use a month?</p> | <p>10. _____</p> |
| <p>11) Faye collected 3 times as many bags of cans as her friend. If her friend collected $\frac{1}{4}$ of a bag. How many bags did Faye collect?</p> | <p>11. _____</p> |
| <p>12) A pitcher could hold $\frac{3}{12}$ of a gallon of water. If Roger filled up 3 pitchers, how much water would he have?</p> | <p>12. _____</p> |



Solve each problem. Answer as an improper fraction (if necessary).

Answers

1)

$$\frac{3}{8} \times \frac{7}{9} =$$

2)

$$\frac{2}{5} \times \frac{5}{7} =$$

3)

$$\frac{3}{5} \times \frac{1}{3} =$$

4)

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

5)

$$\frac{2}{3} \times \frac{1}{2} =$$

6)

$$\frac{7}{8} \times \frac{2}{5} =$$

7)

$$\frac{6}{7} \times \frac{7}{10} =$$

8)

$$\frac{2}{9} \times \frac{3}{8} =$$

9)

$$\frac{3}{4} \times \frac{4}{9} =$$

10)

$$\frac{2}{50} \times \frac{5}{18} =$$

11)

$$\frac{9}{24} \times \frac{6}{90} =$$

12)

$$\frac{2}{45} \times \frac{9}{20} =$$

13)

$$\frac{5}{6} \times \frac{8}{7} =$$

14)

$$2\frac{1}{2} \times \frac{1}{10} =$$

15)

$$\frac{3}{2} \times 3\frac{5}{6} =$$

16)

$$2\frac{4}{7} \times \frac{1}{10} =$$

17)

$$\frac{7}{9} \times \frac{15}{4} =$$

18)

$$\frac{5}{2} \times 3\frac{3}{5} =$$

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16. _____

17. _____

18. _____



Solve each problem. Answer as an improper fraction (if necessary).

Answers

1)

$$\frac{4}{9} \times \frac{1}{2} =$$

2)

$$\frac{2}{3} \times \frac{5}{6} =$$

3)

$$\frac{4}{5} \times \frac{3}{4} =$$

4)

$$\frac{6}{7} \times \frac{1}{2} =$$

5)

$$\frac{1}{6} \times \frac{2}{9} =$$

6)

$$\frac{7}{10} \times \frac{2}{5} =$$

7)

$$\frac{3}{4} \times \frac{2}{9} =$$

8)

$$\frac{3}{8} \times \frac{4}{9} =$$

9)

$$\frac{2}{5} \times \frac{5}{6} =$$

10)

$$\frac{4}{30} \times \frac{6}{28} =$$

11)

$$\frac{6}{50} \times \frac{5}{54} =$$

12)

$$\frac{8}{12} \times \frac{3}{16} =$$

13)

$$\frac{19}{10} \times \frac{8}{9} =$$

14)

$$\frac{18}{5} \times 1\frac{2}{9} =$$

15)

$$\frac{8}{3} \times \frac{1}{2} =$$

16)

$$\frac{7}{3} \times 3\frac{9}{10} =$$

17)

$$3\frac{1}{5} \times \frac{19}{8} =$$

18)

$$\frac{10}{3} \times \frac{1}{8} =$$

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