Cotuz

Name: Date:

Dividing Fractions by Fractions

Grade 6 · Ages 11-12 · Math · Fractions · ★★

Divide. Write a mixed number as an improper fraction first, then multiply by the reciprocal. Write each answer in simplest form on the line; an answer bigger than 1 can be a mixed number. For a word problem, write the number sentence and the answer with its unit.

1. 7 ÷ 3/5 = _____

2. 1 2/5 ÷ 1/4 = _____

3. 3 1/4 ÷ 3/5 = _____

4. 10 ÷ 4/5 = _____

5. 6 ÷ 5/7 = _____

6. 2 3/4 ÷ 1/4 = _____

7. 3 1/3 ÷ 1/2 = _____

8. 8 ÷ 3/5 = _____

9. A ribbon is 4/5 m long. Mei cuts it into pieces 2/5 m long. How many pieces does Mei get?

_____

10. A tank holds 5 1/4 L of water. Zara fills bottles that hold 3/4 L each. How many bottles does Zara fill?

_____

11. 12 ÷ 9/10 = _____

12. 3 1/3 ÷ 5/6 = _____

13. A sack holds 4 1/5 kg of flour. Yara puts the flour into packets of 3/5 kg. How many packets does Yara fill?

_____

14. 3 1/2 ÷ 2/3 = _____

15. 2 ÷ 2/7 = _____

16. 1 1/5 ÷ 1/4 = _____

17. A rope 3 1/5 m long is cut into pieces of 4/5 m. How many pieces are there?

_____

18. 4 ÷ 2/9 = _____

19. A kitchen has 2 1/2 kg of sugar to put into jars that hold 5/6 kg. How many jars does it fill?

_____

20. 5 ÷ 4/5 = _____

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ANSWER KEY

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1. 7 ÷ 3/5 = **35/3 = 11 2/3**

2. 1 2/5 ÷ 1/4 = **28/5 = 5 3/5**

3. 3 1/4 ÷ 3/5 = **65/12 = 5 5/12**

4. 10 ÷ 4/5 = **50/4 = 12 1/2**

5. 6 ÷ 5/7 = **42/5 = 8 2/5**

6. 2 3/4 ÷ 1/4 = **44/4 = 11**

7. 3 1/3 ÷ 1/2 = **20/3 = 6 2/3**

8. 8 ÷ 3/5 = **40/3 = 13 1/3**

9. A ribbon is 4/5 m long. Mei cuts it into pieces 2/5 m long. How many pieces does Mei get?

Answer: 4/5 ÷ 2/5 = 20/10 = 2 pieces

10. A tank holds 5 1/4 L of water. Zara fills bottles that hold 3/4 L each. How many bottles does Zara fill?

Answer: 5 1/4 ÷ 3/4 = 84/12 = 7 bottles

11. 12 ÷ 9/10 = **120/9 = 13 1/3**

12. 3 1/3 ÷ 5/6 = **60/15 = 4**

13. A sack holds 4 1/5 kg of flour. Yara puts the flour into packets of 3/5 kg. How many packets does Yara fill?

Answer: 4 1/5 ÷ 3/5 = 105/15 = 7 packets

14. 3 1/2 ÷ 2/3 = **21/4 = 5 1/4**

15. 2 ÷ 2/7 = **14/2 = 7**

16. 1 1/5 ÷ 1/4 = **24/5 = 4 4/5**

17. A rope 3 1/5 m long is cut into pieces of 4/5 m. How many pieces are there?

Answer: 3 1/5 ÷ 4/5 = 80/20 = 4 pieces

18. 4 ÷ 2/9 = **36/2 = 18**

19. A kitchen has 2 1/2 kg of sugar to put into jars that hold 5/6 kg. How many jars does it fill?

Answer: 2 1/2 ÷ 5/6 = 30/10 = 3 jars

20. 5 ÷ 4/5 = **25/4 = 6 1/4**