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. 11 ÷ 2/3 = _____

2. 1 2/3 ÷ 1/2 = _____

3. 9 ÷ 7/10 = _____

4. 2 2/3 ÷ 1/6 = _____

5. 4 ÷ 2/3 = _____

6. 3 2/5 ÷ 3/4 = _____

7. 1 3/4 ÷ 5/6 = _____

8. 4 ÷ 7/10 = _____

9. 3 3/4 ÷ 1/3 = _____

10. 3 1/5 ÷ 4/5 = _____

11. A kitchen has 6 2/5 kg of sugar to put into jars that hold 4/5 kg. How many jars does it fill?

_____

12. 12 ÷ 4/9 = _____

13. A ribbon is 5 3/5 m long. Sana cuts it into pieces 4/5 m long. How many pieces does Sana get?

_____

14. 12 ÷ 5/7 = _____

15. 1 3/4 ÷ 4/5 = _____

16. A sack holds 6 2/3 kg of flour. Maya puts the flour into packets of 5/6 kg. How many packets does Maya fill?

_____

17. 3 3/4 ÷ 1/6 = _____

18. 2 ÷ 3/8 = _____

19. 10 ÷ 2/3 = _____

20. Ishaan has 2 2/5 m of string and cuts it into lengths of 3/5 m for kites. How many lengths does Ishaan cut?

_____

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ANSWER KEY

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1. 11 ÷ 2/3 = **33/2 = 16 1/2**

2. 1 2/3 ÷ 1/2 = **10/3 = 3 1/3**

3. 9 ÷ 7/10 = **90/7 = 12 6/7**

4. 2 2/3 ÷ 1/6 = **48/3 = 16**

5. 4 ÷ 2/3 = **12/2 = 6**

6. 3 2/5 ÷ 3/4 = **68/15 = 4 8/15**

7. 1 3/4 ÷ 5/6 = **42/20 = 2 1/10**

8. 4 ÷ 7/10 = **40/7 = 5 5/7**

9. 3 3/4 ÷ 1/3 = **45/4 = 11 1/4**

10. 3 1/5 ÷ 4/5 = **80/20 = 4**

11. A kitchen has 6 2/5 kg of sugar to put into jars that hold 4/5 kg. How many jars does it fill?

Answer: 6 2/5 ÷ 4/5 = 160/20 = 8 jars

12. 12 ÷ 4/9 = **108/4 = 27**

13. A ribbon is 5 3/5 m long. Sana cuts it into pieces 4/5 m long. How many pieces does Sana get?

Answer: 5 3/5 ÷ 4/5 = 140/20 = 7 pieces

14. 12 ÷ 5/7 = **84/5 = 16 4/5**

15. 1 3/4 ÷ 4/5 = **35/16 = 2 3/16**

16. A sack holds 6 2/3 kg of flour. Maya puts the flour into packets of 5/6 kg. How many packets does Maya fill?

Answer: 6 2/3 ÷ 5/6 = 120/15 = 8 packets

17. 3 3/4 ÷ 1/6 = **90/4 = 22 1/2**

18. 2 ÷ 3/8 = **16/3 = 5 1/3**

19. 10 ÷ 2/3 = **30/2 = 15**

20. Ishaan has 2 2/5 m of string and cuts it into lengths of 3/5 m for kites. How many lengths does Ishaan cut?

Answer: 2 2/5 ÷ 3/5 = 60/15 = 4 lengths