Cotuz

Name: _____ Date: _____

Ratios, Rates and Unit Rates

Grade 6 · Ages 11-12 · Math · Ratios & Rates · ★★

Write each answer on the line: a rate as a number (120 km in 2 hours is 60 km in 1 hour, so write 60), a ratio with a colon in its simplest form, like 3:8.

1. A train travels 612 km in 9 hours. How many km does it travel in 1 hour?

_____

2. Write the ratio 56:16 in its simplest form.

_____

3. A paint mix uses 6 L of yellow for every 7 L of blue. How many L of yellow go with 63 L of blue? _____

4. A printer prints 189 pages in 7 minutes. How many pages does it print in 1 minute? _____

5. A floor pattern uses 3 white tiles for every 4 grey tiles. How many white tiles go with 8 grey tiles? _____

6. Write the ratio 81:9 in its simplest form.

_____

7. Ola cycles 252 km in 12 hours at a steady speed. How many km is that in 1 hour? _____

8. A juice mix uses 3 L of orange juice for every 5 L of water. How many L of orange juice go with 25 L of water?

_____

9. A shelf has 19 storybooks and 43 comics. Write the ratio of comics to all the books. _____

10. A pencil case holds 29 pencils and 46 pens. Write the ratio of pencils to all the pencils and pens. _____

11. A gardener plants 6 tulips for every 5 roses. How many tulips go with 25 roses? _____

12. 4 bags of rice have a total mass of 56 kg. What is the mass of 1 bag, in kg?

_____

13. A tin holds 32 cookies and 55 muffins. Write the ratio of cookies to all the cookies and muffins. _____

14. Ananya gives 26 L of water to 4 plants, the same amount to each. How many L does each plant get? _____

15. A necklace pattern uses 2 red beads for every 9 blue beads. How many red beads go with 18 blue beads?

_____

16. A pond has 25 ducks and 11 geese. Write the ratio of ducks to all the birds.

_____

17. A fruit salad uses 4 apples for every 7 oranges. How many apples go with 14 oranges? _____

18. Hiro runs 832 m in 4 minutes at a steady pace. How many m is that in 1 minute?

_____

19. A recipe uses 8 kg of flour for every 9 kg of sugar. How many kg of flour go with 90 kg of sugar? _____

20. Liam reads 36 pages in 9 minutes at a steady pace. How many pages is that in 1 minute? _____

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ANSWER KEY

Ratios, Rates and Unit Rates

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1. A train travels 612 km in 9 hours. How many km does it travel in 1 hour? **68**

2. Write the ratio 56:16 in its simplest form. **7:2**

3. A paint mix uses 6 L of yellow for every 7 L of blue. How many L of yellow go with 63 L of blue? **54**

4. A printer prints 189 pages in 7 minutes. How many pages does it print in 1 minute? **27**

5. A floor pattern uses 3 white tiles for every 4 grey tiles. How many white tiles go with 8 grey tiles? **6**

6. Write the ratio 81:9 in its simplest form. **9:1**

7. Ola cycles 252 km in 12 hours at a steady speed. How many km is that in 1 hour? **21**

8. A juice mix uses 3 L of orange juice for every 5 L of water. How many L of orange juice go with 25 L of water? **15**

9. A shelf has 19 storybooks and 43 comics. Write the ratio of comics to all the books. **43:62**

10. A pencil case holds 29 pencils and 46 pens. Write the ratio of pencils to all the pencils and pens. **29:75**

11. A gardener plants 6 tulips for every 5 roses. How many tulips go with 25 roses? **30**

12. 4 bags of rice have a total mass of 56 kg. What is the mass of 1 bag, in kg? **14**

13. A tin holds 32 cookies and 55 muffins. Write the ratio of cookies to all the cookies and muffins. **32:87**

14. Ananya gives 26 L of water to 4 plants, the same amount to each. How many L does each plant get? **6.5**

15. A necklace pattern uses 2 red beads for every 9 blue beads. How many red beads go with 18 blue beads? **4**

16. A pond has 25 ducks and 11 geese. Write the ratio of ducks to all the birds. **25:36**

17. A fruit salad uses 4 apples for every 7 oranges. How many apples go with 14 oranges? **8**

18. Hiro runs 832 m in 4 minutes at a steady pace. How many m is that in 1 minute? **208**

19. A recipe uses 8 kg of flour for every 9 kg of sugar. How many kg of flour go with 90 kg of sugar? **80**

20. Liam reads 36 pages in 9 minutes at a steady pace. How many pages is that in 1 minute? **4**