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. 3 bags of rice have a total mass of 18 kg. What is the mass of 1 bag, in kg?

_____

2. Write the ratio 70:90 in its simplest form.

_____

3. A recipe uses 5 kg of flour for every 8 kg of sugar. How many kg of flour go with 72 kg of sugar? _____

4. A builder mixes 4 bags of cement for every 9 bags of sand. How many bags of cement go with 81 bags of sand?

_____

5. Ishaan runs 1,144 m in 8 minutes at a steady pace. How many m is that in 1 minute? _____

6. Write the ratio 6:2 in its simplest form.

_____

7. Write the ratio 54:9 in its simplest form.

_____

8. A tap fills 48 L in 8 minutes. How many L does it fill in 1 minute? _____

9. A paint mix uses 6 L of yellow for every 5 L of blue. How many L of yellow go with 35 L of blue? _____

10. A floor pattern uses 5 white tiles for every 6 grey tiles. How many white tiles go with 36 grey tiles? _____

11. Rohan cycles 160 km in 8 hours at a steady speed. How many km is that in 1 hour? _____

12. A pencil case holds 13 pencils and 54 pens. Write the ratio of pencils to all the pencils and pens. _____

13. A juice mix uses 7 L of orange juice for every 5 L of water. How many L of orange juice go with 50 L of water?

_____

14. A shelf has 50 storybooks and 13 comics. Write the ratio of storybooks to all the books. _____

15. Sofia reads 12 pages in 4 minutes at a steady pace. How many pages is that in 1 minute? _____

16. Ananya gives 13 L of water to 2 plants, the same amount to each. How many L does each plant get? _____

17. A farm has 53 goats and 16 sheep. Write the ratio of goats to all the animals. _____

18. A fruit salad uses 4 apples for every 9 oranges. How many apples go with 36 oranges? _____

19. A pond has 3 ducks and 52 geese. Write the ratio of geese to all the birds.

_____

20. A printer prints 76 pages in 4 minutes. How many pages does it print in 1 minute? _____

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ANSWER KEY

Ratios, Rates and Unit Rates

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1. 3 bags of rice have a total mass of 18 kg. What is the mass of 1 bag, in kg? **6**

2. Write the ratio 70:90 in its simplest form. **7:9**

3. A recipe uses 5 kg of flour for every 8 kg of sugar. How many kg of flour go with 72 kg of sugar? **45**

4. A builder mixes 4 bags of cement for every 9 bags of sand. How many bags of cement go with 81 bags of sand? **36**

5. Ishaan runs 1,144 m in 8 minutes at a steady pace. How many m is that in 1 minute? **143**

6. Write the ratio 6:2 in its simplest form. **3:1**

7. Write the ratio 54:9 in its simplest form. **6:1**

8. A tap fills 48 L in 8 minutes. How many L does it fill in 1 minute? **6**

9. A paint mix uses 6 L of yellow for every 5 L of blue. How many L of yellow go with 35 L of blue? **42**

10. A floor pattern uses 5 white tiles for every 6 grey tiles. How many white tiles go with 36 grey tiles? **30**

11. Rohan cycles 160 km in 8 hours at a steady speed. How many km is that in 1 hour? **20**

12. A pencil case holds 13 pencils and 54 pens. Write the ratio of pencils to all the pencils and pens. **13:67**

13. A juice mix uses 7 L of orange juice for every 5 L of water. How many L of orange juice go with 50 L of water? **70**

14. A shelf has 50 storybooks and 13 comics. Write the ratio of storybooks to all the books. **50:63**

15. Sofia reads 12 pages in 4 minutes at a steady pace. How many pages is that in 1 minute? **3**

16. Ananya gives 13 L of water to 2 plants, the same amount to each. How many L does each plant get? **6.5**

17. A farm has 53 goats and 16 sheep. Write the ratio of goats to all the animals. **53:69**

18. A fruit salad uses 4 apples for every 9 oranges. How many apples go with 36 oranges? **16**

19. A pond has 3 ducks and 52 geese. Write the ratio of geese to all the birds. **52:55**

20. A printer prints 76 pages in 4 minutes. How many pages does it print in 1 minute? **19**