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Year 6 Worksheet 5: Ratio, Proportion and Scaling

Level: Beginner

- 1. If 2 apples cost '1, how much for 4?
- 2. What is the ratio of 3 red balls to 2 blue balls?
- 3. Share 12 sweets equally between 3 people.
- 4. Scale up: 1 bag has 5 apples. How many in 4 bags?
- 5. What is 1/2 of 60?
- 6. Simplify the ratio 6:3
- 7. If 5 pencils cost '2.50, how much is 1?
- 8. Complete the proportion: 1:3 = 3:___
- 9. Find 1/4 of 100
- 10. If a recipe uses 2 eggs for 1 cake, how many for 3 cakes?



Year 6 Worksheet 5: Ratio, Proportion and Scaling

Level: Intermediate

- 1. What is the ratio of 8:12 in its simplest form?
- 2. A model is made at a scale of 1:5. If the model is 20cm, what is the actual length?
- 3. Solve: 2/3 of a number is 30
- 4. Share '120 in the ratio 2:1
- 5. A recipe for 4 people uses 200g flour. How much for 10 people?
- 6. Complete: 4:6 = 10:___
- 7. Use proportion: 3 pens cost '1.80. How much for 9?
- 8. If the scale factor is 2, what happens to 3cm?
- 9. What is 60% of 300?
- 10. Write a ratio to compare 12 boys to 8 girls

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Year 6 Worksheet 5: Ratio, Proportion and Scaling

Level: Difficult

- 1. A map has a scale of 1:1000. What distance represents 5cm?
- 2. A school splits 180 students in a 3:2 ratio. How many in each group?
- 3. Solve: 5/6 of a number is 150
- 4. Scale up: 1.5L makes 6 drinks. How much for 15?
- 5. If 4 apples cost '1.40, how much for 10 apples?
- 6. A shape is enlarged by scale factor 3. Its side is 4cm. New size?
- 7. Share '300 in ratio 5:7
- 8. Find missing: 12:___ = 4:5
- 9. A toy is built at scale 1:20. The real height is 3m. Model height?
- 10. 2:3 = 10:x. Find x.



Year 6 Worksheet 5: Ratio, Proportion and Scaling

Level: Super Challenging

- 1. A wall mix requires sand and cement in a 5:2 ratio. How much cement for 14kg sand?
- 2. If '600 is shared in ratio 3:2:1, how much does each person get?
- 3. A scale drawing uses 1cm for every 2.5m. What does 12cm represent?
- 4. Solve: 2/5 of a number is 180
- 5. If the scale factor is 4, what's the new area of a 3cm ' 2cm shape?
- 6. A car travels 120 miles in 2 hours. At that rate, how far in 7.5 hours?
- 7. Find x: 7:x = 14:28
- 8. Simplify the ratio: 100:150:50
- 9. A group of 180 students is divided in ratio 4:5:1. How many in each group?
- 10. A rectangle's length increases by scale factor 2. Width stays same. How does area change?