## Problems Involving Scaling

Scale the information you have been given up or down to find the answer to each question.

1. Eggs cost 90 p for 6 . How much would 36 eggs cost?

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2. The length of a toy car is 3 cm . Tony wants to make a drawing which is 17 times bigger. How long will the car be in his drawing?

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Robyn is using a recipe which requires these ingredients to make chocolate brownies - she wants to sell them at a fete.


All these ingredients above makes 16 squares. Use this information to help answer the questions on the next page.
3. How much cocoa powder will she need to make 64 squares?

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4. How many squares can she make with nine eggs?

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5. How many squares can the recipe make if she uses 1 kg of butter?

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6. Sunnah is planning her party. She has worked out that each party bag will cost 59 p to make. How much will it cost her to make party bags for each of her nine friends?

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7. James gets three sessions of trampolining for $£ 17$. How much would 12 sessions cost?

8. Annie's drink is made by mixing 250 ml of orange juice with 200 ml of apple juice and 50 ml of strawberry juice. How much apple juice is needed if she is making her drink contain a total of 250 ml ?

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## Problems Involving Scaling Answers

1. Eggs cost 90 p for 6 . How much would 36 eggs cost?
$£ 5.40$
2. The length of a toy car is 3 cm . Tony wants to make a drawing which is 17 times bigger. How long will the car be in his drawing?
51 cm
3. How much cocoa powder will she need to make 64 squares?
$\mathbf{2 0 0 g}$
4. How many squares can she make with nine eggs?

48 squares
5. How many squares can the recipe make if she uses 1 kg of butter?

## 80 squares

6. Sunnah is planning her party. She has worked out that each party bag will cost 59 p to make. How much will it cost her to make party bags for each of her nine friends? £5.31
7. James gets three sessions of trampolining for $£ 17$. How much would 12 sessions cost? £68
8. Annie's drink is made by mixing 250 ml of orange juice with 200 ml of apple juice and 50 ml of strawberry juice. How much apple juice is needed if she is making her drink contain a total of 250 ml ?
100 ml
