

Saving Easter

Saving Easter Reasoning Maths Challenge Cards



Saving Easter

1. The Easter Bunny puts some eggs in a pattern:
pink, yellow, blue, pink, yellow, blue ...

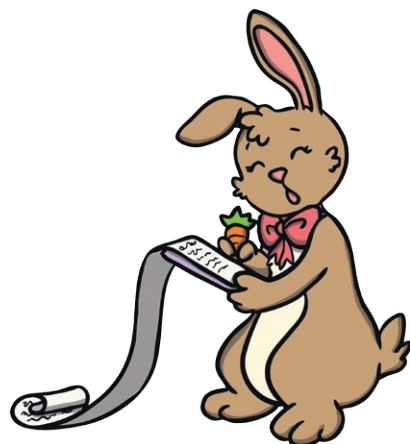
One of the badgers says the 17th egg will be yellow.
Is he right? Explain your answer.



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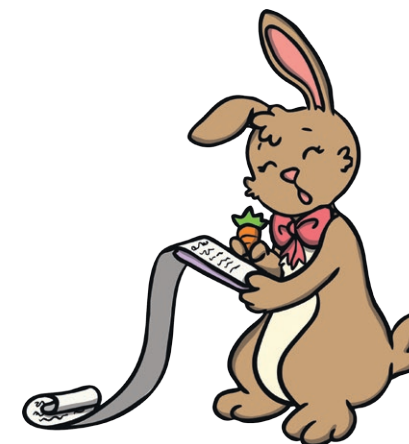
2. The Easter Bunny delivers 10 eggs every hour.
How long does it take her to deliver 47 eggs?
Explain your answer.



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3. A box holds 10 eggs. The geese say they need 8 boxes to hold 50 eggs. Are they right? Explain your answer.



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4. The Easter Bunny puts eggs on a shelf. She has purple, green and white eggs. What combinations could she make with 3 eggs?



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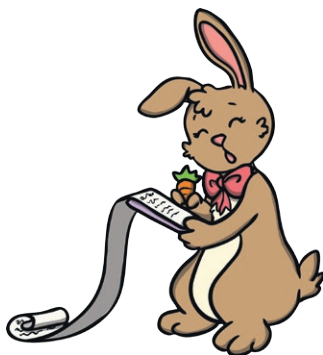
5. Paint costs 75p per pot.
- a) What is the smallest number of coins the Easter Bunny could pay exactly with?
 - b) What is the largest number of coins the Easter Bunny could pay with?



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6. The Easter Bunny only delivers to odd numbered houses, in even numbered hours. Would she deliver to...
- a) number 27 at 8 o'clock?
 - b) number 33 at 11 o'clock?



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7. To celebrate saving Easter, the animals have a party. 50 animals are invited and sit at tables of 5 or 10. How many combinations of tables could there be?



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8. The badgers and geese were painting eggs. Altogether, the animals who were helping had 20 legs. How many geese and badgers could there be?



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9. Last year's Easter egg boxes had 8 vertices and 6 rectangular surfaces. This year's boxes have 3 fewer rectangular faces and 2 fewer vertices.

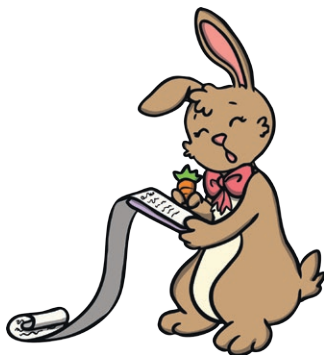
What shape is the Easter Bunny using?



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10. The Easter Bunny wants to buy presents to say thank you. A pack of chocolate bars costs £2 for 5. A box costs £3 for 8. If she had 40 helpers, which option is cheaper?



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11. When helping with painting the eggs, a fox says he can paint 10 eggs in 2 hours. A badger says he can paint 20 eggs in 5 hours. Who can work the quickest? Explain your answer.



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12. The Easter Bunny keeps count of the number of eggs that are ready using hundreds, tens and ones. She drops the sheets of paper on the floor. If she dropped 2, 7 and 3...

a) what is the largest number it could have been?

b) what is the smallest number it could have been?



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Answers

1. Yes. 2, 5, 8, 11, 14 and 17 are yellow.
2. 5 hours. Even though there aren't 50 eggs, the fifth hour is needed.
3. No. They would need 5 boxes
4. P-P-P, G-G-G, W-W-W, P-P-G, P-P-W, G-G-P, G-G-W, W-W-G, W-W-P, P-G-W, P-W-G, W-G-P, W-P-G, G-W-P, G-P-W, P-G-P, P-W-P, W-G-W, W-P-W, G-P-G, G-W-G
5. A) 3 coins, 50p + 20p + 5p b) $75 \times 1p$
6. A) Yes, house = odd, time = even, B) No, house = odd, time = odd
7. 2×5 and 4×10 , 4×5 and 3×10 , 6×5 and 2×10 , 8×5 and 1×10 , 10×5 , 5×10
8. 5B, 4B and 2G, 3B and 4G, 2B and 6G, B and 8G, 10G
9. Triangular prism
10. Boxes. Packets = $8 \times £2 = £16$, Boxes = $5 \times £3 = £15$
11. Fox. Fox paints 50 eggs in 10 hours, Badger paints 40 eggs in 10 hours
12. A) 732 B) 237

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