MATHEMATICS · KINDERGARTEN TO GRADE 3

Addition doubles and near doubles

Difficulty level: Easy

Mathematics: Kindergarten to Grade 3

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Overview of the concept

This is how young children work out sums quickly at the shops or in a board game. They start from a double they already know, like 6 + 6, and add one more to get 6 + 7. It turns a sum they have to think about into one they already know, which makes mental maths much faster.



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Worked examples

EXAMPLE 1

Q What is 6 + 7, using a double?



SOLUTION

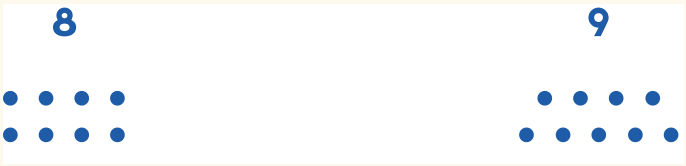
6 + 6 is a double you know: 12

7 = 6 + 1

6 + 7 = 6 + 6 + 1 = 12 + 1 = 13

EXAMPLE 2

Q What is 8 + 9, using a double?



SOLUTION

8 + 8 is a double you know: 16

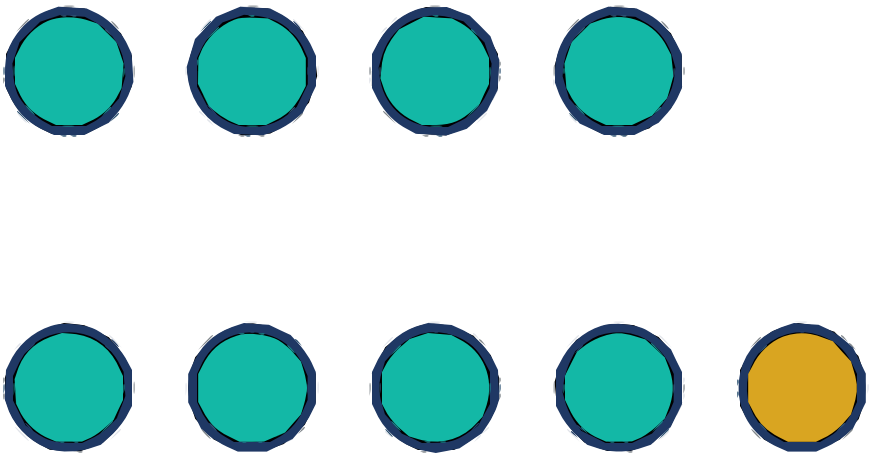
9 = 8 + 1

8 + 9 = 8 + 8 + 1 = 16 + 1 = 17

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Practice questions

1 Maya has two rows of dots. The rows are almost the same. What double is hiding, and how many dots are there in all?



A Double 5 + 5 = 10, total 10

B Double 4 + 4 = 8, total 9

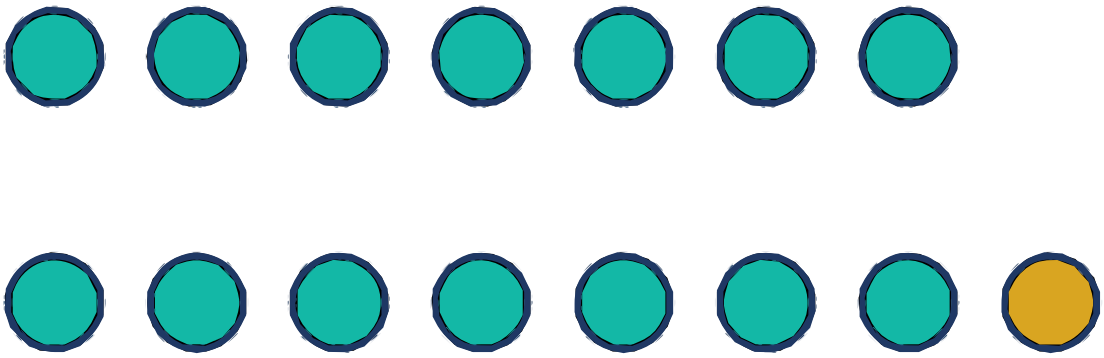
C Double 4 + 4 = 8, total 8

D Double 5 + 5 = 10, total 9

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2 Tom lines up counters in two rows. How many counters are there in all?



A 14

B 15

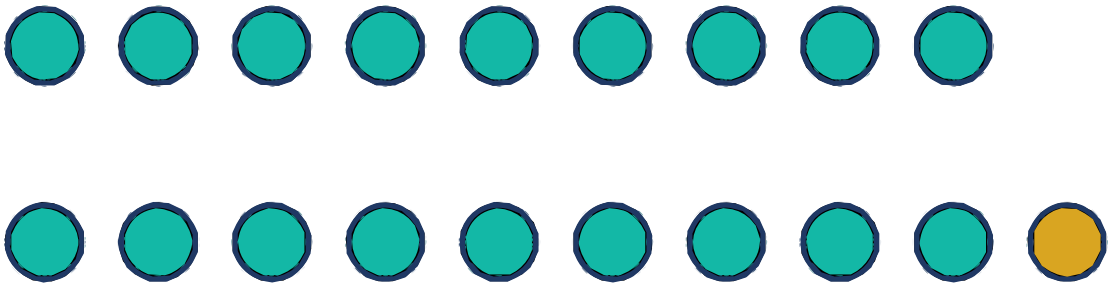
C 16

D 13

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3 The bottom row has one more dot than the top row. Maya knows 10 + 10 = 20. What is 9 + 10?

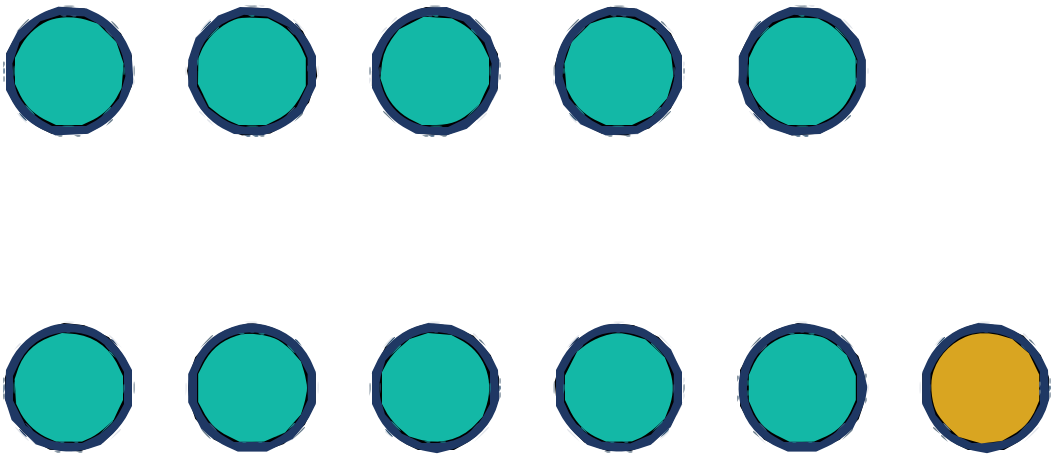


- **A** 18
- **B** 19
- **C** 20
- **D** 21

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4 **Leo has two rows of marbles. Are the rows a double, a near double, or neither?**



A. A double, because both rows match

B. A near double, because the rows differ by one

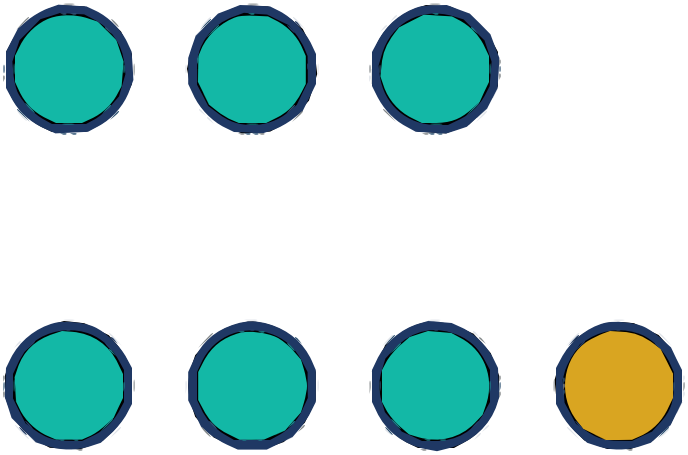
C. Neither, because the rows are different numbers

D. A double, because there are two rows

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5 How many dots are in the top row? How many dots are in the bottom row? What double is hiding, and what is the total?



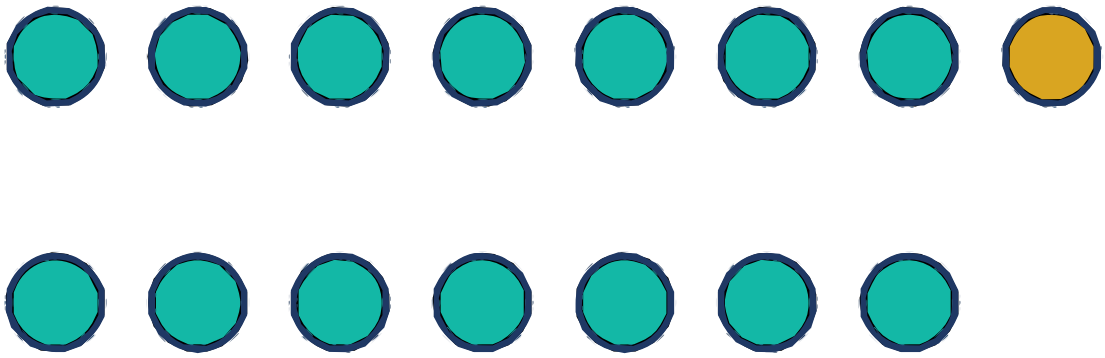
- **A** 3 and 4, double 3 + 3 = 6, total 7
- **B** 4 and 3, double 3 + 3 = 6, total 7
- **C** 3 and 4, double 4 + 4 = 8, total 8
- **D** 3 and 4, double 3 + 3 = 6, total 6

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6

Ana has two rows of dots. Which row has more dots? What double is hiding, and how many dots are there in all?



A Top row, double 7 + 7 = 14, total 15

B Bottom row, double 7 + 7 = 14, total 15

C Top row, double 8 + 8 = 16, total 16

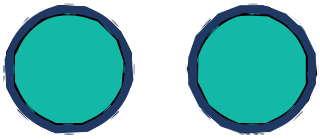
D Top row, double 7 + 7 = 14, total 14

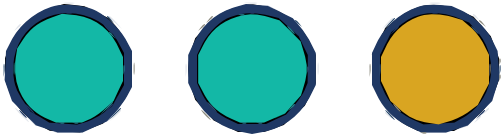
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7 Kim puts stickers in two rows. If she adds one sticker to the shorter row, what double would she have?





A 2 + 2

B 3 + 3

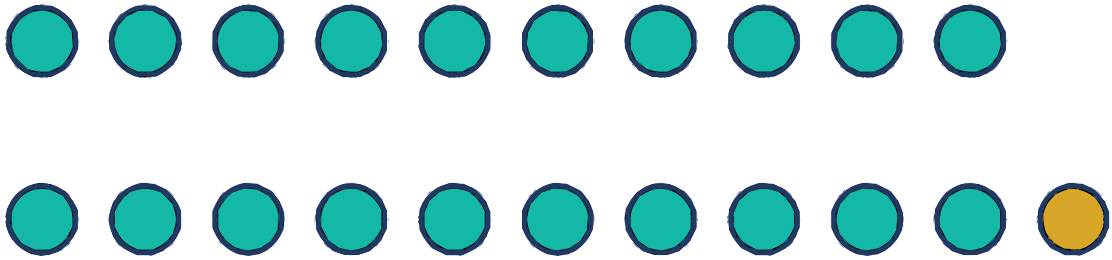
C 4 + 4

D 1 + 1

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8 **The rows are almost the same. Eva knows 10 + 10 = 20. How can she work out 10 + 11?**



A Add 1 to 20

B Take 1 from 20

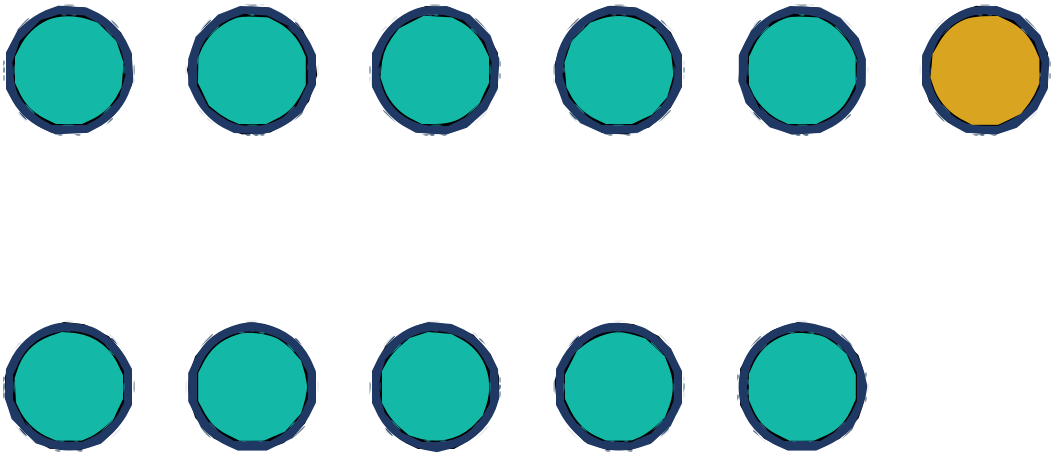
C Double 20

D Add 10 to 20

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9 **Eva has two rows of counters. How many more counters are in the top row than in the bottom row? What double is hiding, and what is the total?**

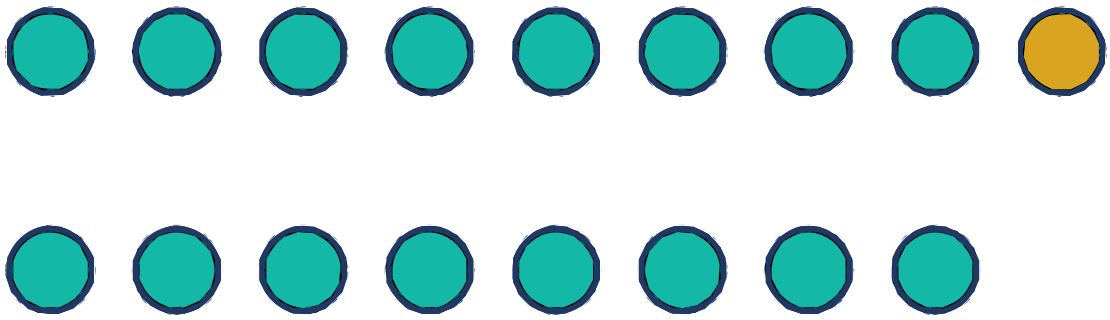


- **A** 1 more, double 5 + 5 = 10, total 11
- **B** 2 more, double 5 + 5 = 10, total 11
- **C** 1 more, double 6 + 6 = 12, total 12
- **D** 1 more, double 5 + 5 = 10, total 10

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10 **Max lines up dots in two rows. Which sum is the same as 8 + 9?**



A 8 + 8 + 1

B 8 + 8

C 9 + 9

D 9 + 9 + 1

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ANSWER KEY

1. Double 4 + 4 = 8, total 9

2. 15

3. 19

4. A near double, because the rows differ by one

5. 3 and 4, double 3 + 3 = 6, total 7

6. Top row, double 7 + 7 = 14, total 15

7. 3 + 3

8. Add 1 to 20

9. 1 more, double 5 + 5 = 10, total 11

10. 8 + 8 + 1

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