Reasoning and Problem Solving – Making Doubles

National Curriculum Objectives:

Mathematics Year 1: (1C4) Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems
Mathematics Year 1: (1N1b) Count in multiples of twos, fives and tens

Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Make double of a given number of sweets. Doubles of numbers up to 10 and all questions have pictorial support; numbers in numerals only.
Expected Make double of a given number of sweets. Doubles of numbers up to 20 and all questions have pictorial support; numbers in numerals only.
Greater Depth Make double of a given number of sweets. Doubles of numbers up to 20 and minimal pictorial support; numbers given in words and numerals.

Questions 2, 5 and 8 (Problem solving)
Developing Find the errors in the given doubles. Doubles of numbers up to 10 pictorial support given.
Expected Find the errors in the given doubles. Doubles of numbers up to 20 pictorial support given.
Greater Depth Find the errors in the given doubles. Doubles of numbers up to 30 no pictorial support given.

Questions 3, 6 and 9 (Reasoning)
Developing Find the one missing number answer from the given statements. Doubles of numbers up to 10.
Expected Find the three missing number answers from the given statements. Doubles of numbers up to 20.
Greater Depth Find the four missing number answers from the given statements. Doubles of numbers up to 20.

More Year 1 Multiplication and Division resources.

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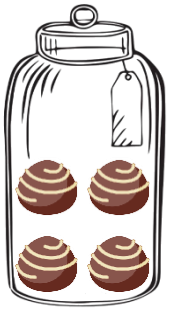
Making Doubles

1a. Della buys a jar of sweets. Each jar has 4 sweets inside. How many sweets will she have if she buys 2 jars?

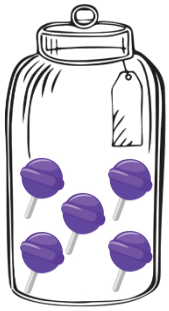


Explain your answer.

D R

Making Doubles

1b. Ted buys a jar of sweets. Each jar has 5 sweets inside. How many sweets will he have if he buys 2 jars?



Explain your answer.

D R

2a. Find the errors in these calculations.

Double 2 = 4

Double 5 = 9

Double 3 = 8

Double 1 = 2

D PS

2b. Find the errors in these calculations.

Double 4 = 10

Double 3 = 6

Double 2 = 5

Double 5 = 10

D PS

3a. Complete the doubling number sentences.

Double 1 is 2.

Double 2 is 4.

Double 3 is 6.

Double 4 is 8.

Double 5 is _____.

Explain how you know.

D R

3b. Complete these doubling number sentences.

Double 2 is 4.

Double 5 is 10.

Double 3 is _____.

Double 1 is 2.

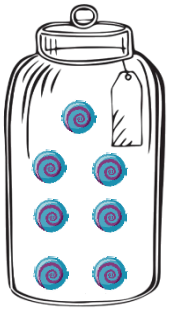
Double 4 is 8.

Explain how you know.

D R

Making Doubles

4a. Ali buys a jar of sweets. Each jar has 7 sweets inside. How many sweets will he have if he buys 2 jars?



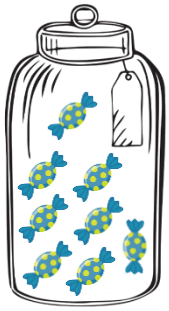
Explain your answer.

E

R

Making Doubles

4b. Alice buys a jar of sweets. Each jar has 8 sweets inside. How many sweets will she have if she buys 2 jars?



Explain your answer.

E

R

5a. Find the errors in these calculations.

Double 8 = 16

Double 6 = 12

Double 5 = 11

Double 10 = 19

E

PS

5b. Find the errors in these calculations.

Double 9 = 20

Double 7 = 14

Double 5 = 10

Double 6 = 13

E

PS

6a. Complete these doubling number sentences.

Double 6 is 12.

Double 7 is _____.

Double 8 is 16.

Double 9 is _____.

Double 10 is _____.

Explain how you know.

E

R

6b. Complete these doubling number sentences.

Double 5 is _____.

Double 6 is 12.

Double 7 is 14.

Double 8 is _____.

Double 9 is _____.

Explain how you know.

E

R

Making Doubles

7a. Sarah buys two jars of sweets.

Each jar has 9 sweets inside. How many sweets will I have if I buy 2 jars?

Explain your answer.

GD R

Making Doubles

7b. James buys two jars if sweets.

Each jar has 7 sweets inside. How many sweets will I have I buy 2 jars?

Explain your answer.

GD R

8a. Find the errors in these calculations.

Double 8 = 18

Double seven = 14

Double 10 = 19

Double four = 6

GD PS

8b. Find the errors in these calculations.

Double three = 6

Double 9 = 18

Double six = 16

Double 5 = 25

GD PS

9a. Complete these doubling number sentences.

Double ten is _____.

Double 7 is _____.

Double 9 is 18.

Double six is _____.

Double four is _____.

Explain how you know.

GD R

9b. Complete these doubling number sentences.

Double three is _____.

Double 10 is 20.

Double eight is _____.

Double nine is _____.

Double 6 is _____.

Explain how you know.

GD R

Reasoning and Problem Solving
Making Doubles

Developing

1a. Della will have 8 sweets because double 4 is 8.

2a. Double 3 is 6 (not 8) and Double 5 is 10 (not 9).

3a. Double 5 is 10 because 5 + 5 = 10.

Expected

4a. Ali will have 14 sweets because double 7 is 14.

5a. Double 5 is 10 (not 11) and Double 10 is 20 (not 19)

6a. Double 7 is 14 because 7 + 7= 14.
Double 9 is 18 because 9 + 9 = 18.
Double 10 is 20 because 10 + 10 = 20.

Greater Depth

7a. Sarah has 18 sweets because 9 + 9= 18.

8a. Double 8 is 16 (not 18).
Double 10 is 20 (not 19).
Double four is 8 (not 6).

9a. Double ten is 20 because 10 + 10 = 20.
Double 7 is 14 because 7 + 7 = 14.
Double six is 12 because 6 + 6 = 12.
Double four is 8 because 4 + 4 = 8.

Reasoning and Problem Solving
Making Doubles

Developing

1b. Ted will have 10 sweets because double 5 is 10.

2b. Double 4 is 8 (not 10) and Double 2 is 4 (not 5)

3b. Double 3 is 6 because 3 + 3 = 6.

Expected

4b. Alice will have 16 sweets. Double 8 is 16.

5b. Double 9 is 18 (not 20) and Double 6 is 12 (not 13).

6b. Double 5 is 10 because 5 + 5 = 10.
Double 8 is 16 because 8 + 8 = 16.
Double 9 is 18 because 9 + 9 = 18.

Greater Depth

7b. James has 14 sweets because 7 + 7= 14.

8b. Double six is 12 (not 16).
Double 5 is 10 not 25.

9b. Double three is 6 because 3 + 3 = 6.
Double eight is 16 because 8 + 8 = 16.
Double nine is 18 because 9 + 9 = 18.
Double 6 is 12 because 6 + 6 = 12.