Varied Fluency
Step 3: Add by Making 10

National Curriculum Objectives:

Mathematics Year 1: (1N1a) Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
Mathematics Year 1: (1N2a) Count, read and write numbers to 100 in numerals
Mathematics Year 1: (1N2b) Given a number, identify one more and one less
Mathematics Year 1: (1N4) Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least

Differentiation:
Developing Questions to support adding by making 10 (including totals no greater than 15).
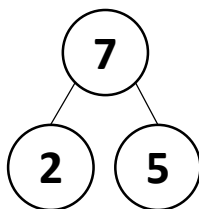**Expected** Questions to support adding by making 10 (including totals no greater than 20).
Greater Depth Questions to support adding by making 10 (including totals no greater than 20). Questions include three parts.

More Year 1 Addition and Subtraction resources.

Did you like this resource? Don't forget to review it on our website.

Add by Making 10

1a. Circle the calculation that matches the part whole model.

```
      ( 7 )
     /     \
  ( 2 )   ( 5 )
```
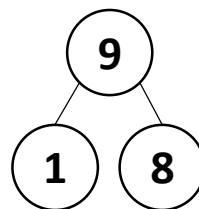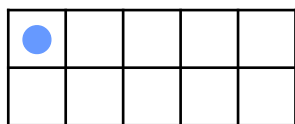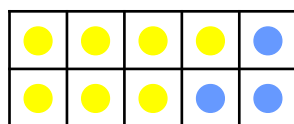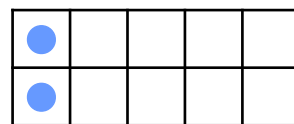
A. 7 + 2 = 5

B. 5 + 2 = 7

C. 7 + 5 = 2

VF

2a. True or false? The calculation below matches the ten frames.

7 + 4 = 11

3a. Write a calculation to match the number line.

```
        +3      +2
  5  6  7  8  9  10  11  12  13  14  15
```

☐ + ☐ + ☐ = ☐

VF

4a. Colour the counters to match the calculation. Use different colours to show the two parts.

8 + 4 = 12

VF

Add by Making 10

1b. Circle the calculation that matches the part whole model.

```
      ( 9 )
     /     \
  ( 1 )   ( 8 )
```

A. 9 + 8 = 1

B. 9 + 1 = 8

C. 8 + 1 = 9

VF

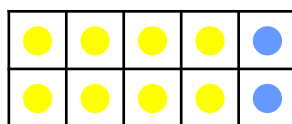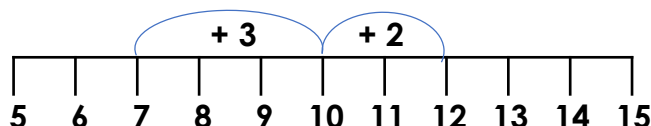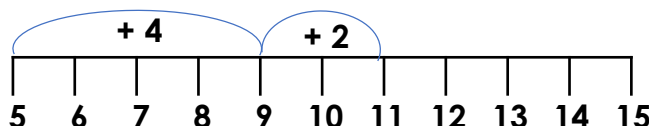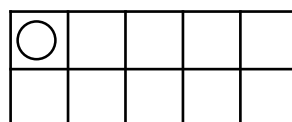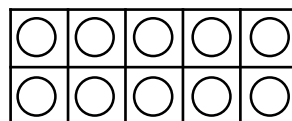**2b.** True or false? The calculation below matches the ten frames.

9 + 3 = 12

3b. Write a calculation to match the number line.

```
        +4      +2
  5  6  7  8  9  10  11  12  13  14  15
```

☐ + ☐ + ☐ = ☐
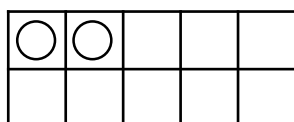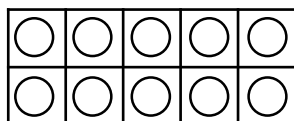
VF

4b. Colour the counters to match the calculation. Use different colours to show the two parts.

6 + 5 = 11

VF

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Add by Making 10
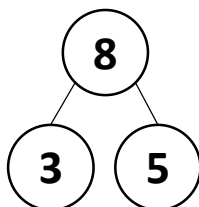
Add by Making 10

5a. Circle the calculation that matches the part whole model.

8

3   5

A.   5   +   3   =   8

B.   8   +   5   =   3
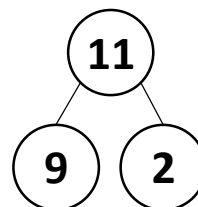
C.   8   +   5   =   13

VF

5b. Circle the calculation that matches the part whole model.

11

9   2

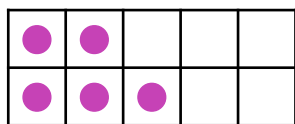A.   11   +   2   =   9

B.   2   +   9   =   11
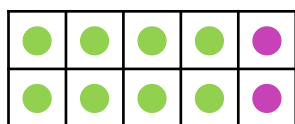
C.   9   +   2   =   11

VF

6a. True or false? The calculation below matches the ten frames.
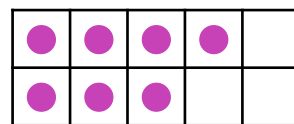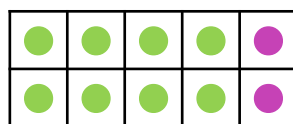
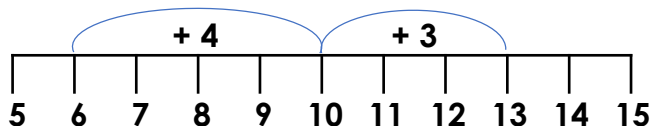9   +   6   =   15

VF

6b. True or false? The calculation below matches the ten frames.

8   +   9   =   17

VF

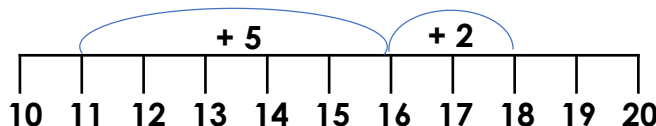**7a.** Write a calculation to match the number line.

+ 4   + 3

5   6   7   8   9   10   11   12   13   14   15

☐ + ☐ + ☐ = ☐

VF

7b. Write a calculation to match the number line.

+ 5   + 2

10   11   12   13   14   15   16   17   18   19   20

☐ + ☐ + ☐ = ☐

VF

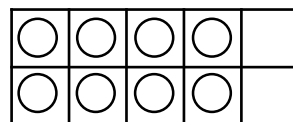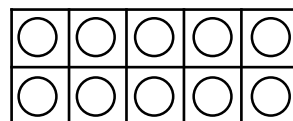**8a.** Colour the counters to match the calculation. Use different colours to show the two parts.

9   +   11   =   20
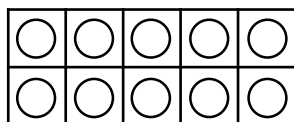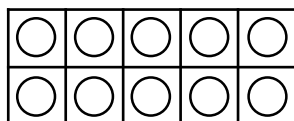
VF

8b. Colour the counters to match the calculation. Use different colours to show the two parts.
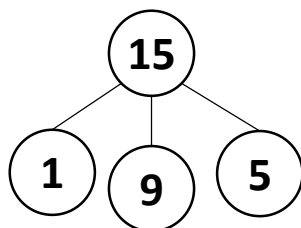
11   +   7   =   18

VF

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Varied Fluency – Add by Making 10 – Year 1 Expected

Add by Making 10

Add by Making 10

9a. Circle the calculation that matches the part whole model.

```
      15
    / | \
   1  9  5
```

A. 15 + 1 + 5 = 9

B. 9 + 1 + 5 = 15

C. 10 + 5 = 15

VF

9b. Circle the calculation that matches the part whole model.

```
      13
    / | \
   8  3  2
```
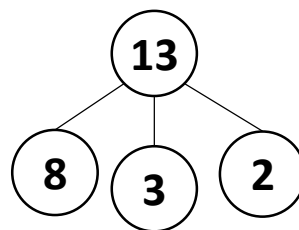
A. 8 + 3 + 2 = 13
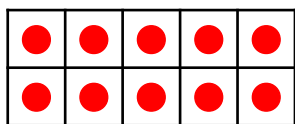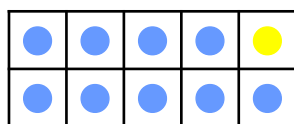
B. 13 + 8 + 2 = 13

C. 13 = 8 + 2 + 2

VF

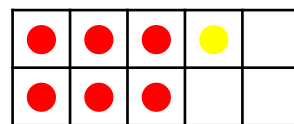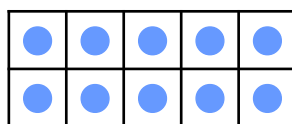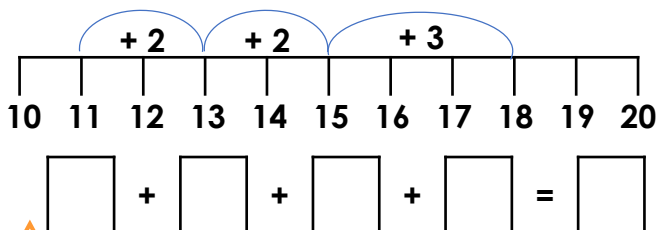**10a. True or false? The calculation below matches the ten frames.**

9 + 10 + 1 = 20

VF

10b. True or false? The calculation below matches the ten frames.

11 + 5 + 1 = 17

VF

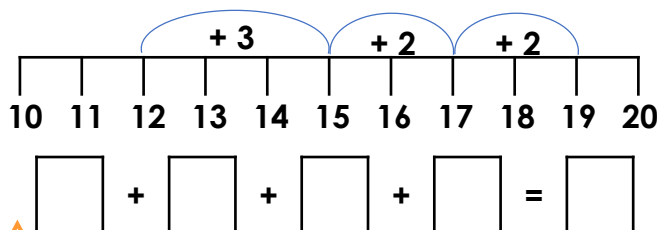**11a. Write a calculation to match the number line.**

+ 2   + 2   + 3

10 11 12 13 14 15 16 17 18 19 20

☐ + ☐ + ☐ + ☐ = ☐

VF

11b. Write a calculation to match the number line.

+ 3   + 2   + 2

10 11 12 13 14 15 16 17 18 19 20

☐ + ☐ + ☐ + ☐ = ☐

VF

12a. Colour the counters to match the calculation. Use different colours to show the three parts.
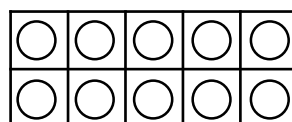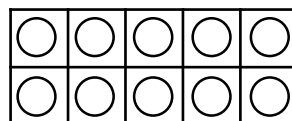
9 + 5 + 4 = 18
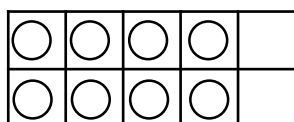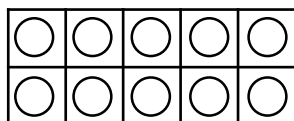
VF

12b. Colour the counters to match the calculation. Use different colours to show the three parts.

15 + 2 + 3 = 20

VF

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Varied Fluency – Add by Making 10 – Year 1 Greater Depth

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Developing
1a. **B**
2a. **True**
3a. **7 + 3 + 2 = 12**
4a. **8 + 4 = 12 should be represented.**

Expected
5a. **A**
6a. **False, the ten frames show 8 + 7 = 15**
7a. **6 + 4 + 3 = 13**
8a. **9 + 11 = 20 should be represented.**

Greater Depth
9a. **B**
10a. **True**
11a. **11 + 2 + 2 + 3 = 18**
12a. **9 + 5 + 4 = 18 should be represented.**

Developing
1b. **C**
2b. **False, the ten frames show 8 + 4 = 12**
3b. **5 + 4 + 2 = 11**
4b. **6 + 5 = 11 should be represented.**

Expected
5b. **B or C**
6b. **True**
7b. **11 + 5 + 2 = 18**
8b. **11 + 7 = 18 should be represented.**

Greater Depth
9b. **A**
10b. **False, the ten frames show 10 + 6 +1 = 17**
11b. **12 + 3 + 2 + 2 = 19**
12b. **15 + 2 + 3 = 20 should be represented.**

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Varied Fluency – Add by Making 10 **ANSWERS**