

Varied Fluency

Step 7: Subtract Tens from 3-digits

National Curriculum Objectives:

Mathematics Year 3: (3C1) [Add and subtract numbers mentally, including three-digit number and ones three-digit number and tens three-digit number and hundreds](#)

Mathematics Year 3: (3C2) [Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction](#)

Mathematics Year 3: (3C3) [Estimate the answer to a calculation and use inverse operations to check answers](#)

Mathematics Year 3: (3C4) [Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction](#)

Differentiation:

Developing Questions to support subtracting tens from 3-digit numbers (no exchanging).

Expected Questions to support subtracting tens from 3-digit numbers (with exchanging).

Greater Depth Questions to support subtracting tens from 3-digit and 4-digit numbers (with exchanging).

[More resources](#) which follow the same small steps as White Rose.

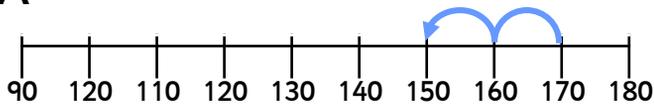
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Varied Fluency – Subtract Tens from 3-digits

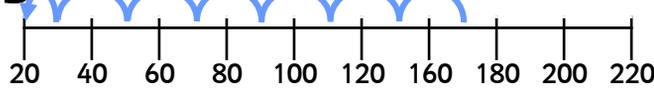
1a. Find the number line representing:

$$170 - 20$$

A



B

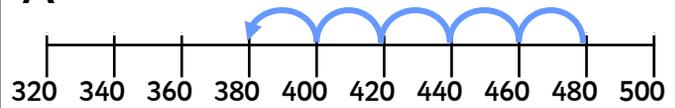


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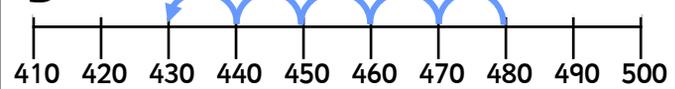
1b. Find the number line representing:

$$480 - 50$$

A



B



VF

2a. Which calculation is helpful when finding $270 - 60$?

A $70 - 60 = 10$

B $200 + 20 = 220$

C $70 + 10 = 80$

Now calculate $270 - 60$.



VF

2b. Which calculation is helpful when finding $680 - 30$?

A $80 - 30 = 50$

B $80 + 600 = 680$

C $50 - 30 = 20$

Now calculate $680 - 30$.



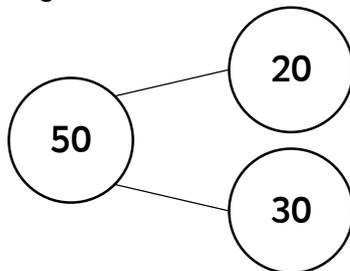
VF

3a. Use the part whole model to help solve the following subtractions.

$$450 - 20$$

$$450 - 30$$

$$150 - 20$$



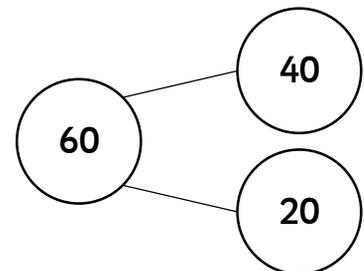
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3b. Use the part whole model to help solve the following subtractions.

$$360 - 40$$

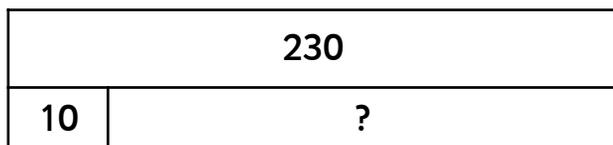
$$360 - 20$$

$$460 - 20$$



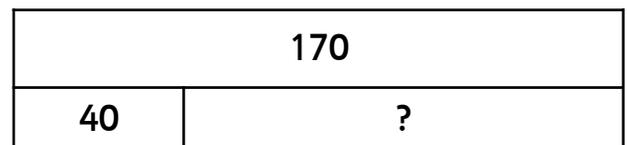
VF

4a. Complete the bar model.



VF

4b. Complete the bar model.



VF

5a. Which subtraction(s) are correct?

A $250 - 30 = 230$

B $190 - 80 = 100$

C $370 - 70 = 300$



VF

5b. Which subtraction(s) are correct?

A $490 - 10 = 480$

B $270 - 40 = 230$

C $360 - 50 = 310$



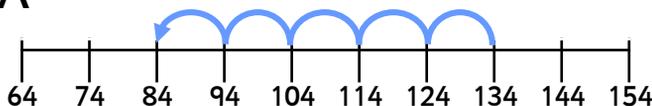
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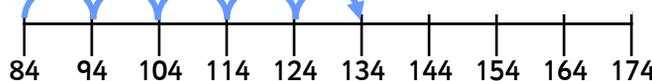
6a. Find the number line representing:

$$134 - 50$$

A



B

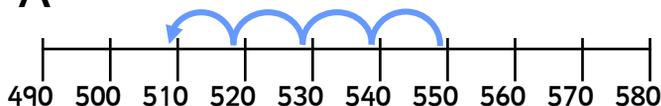


VF

6b. Find the number line representing:

$$549 - 40$$

A



B



VF

7a. Which calculation(s) are helpful when finding $362 - 80$?

A $362 - 62 = 300$

B $80 - 62 = 18$

C $362 - 18 = 344$

Now calculate $362 - 80$.



VF

7b. Which calculation(s) are helpful when finding $876 - 90$?

A $876 - 70 = 806$

B $90 - 76 = 14$

C $876 + 14 = 890$

Now calculate $876 - 90$.



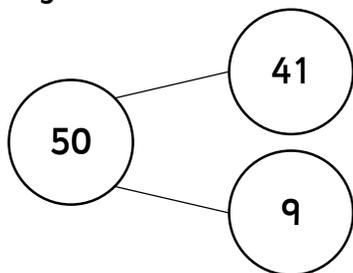
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8a. Use the part whole model to help solve the following subtractions.

$$409 - 50$$

$$209 - 50$$

$$109 - 50$$



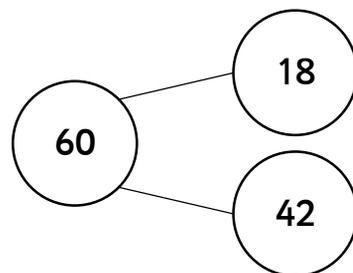
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8b. Use the part whole model to help solve the following subtractions.

$$942 - 60$$

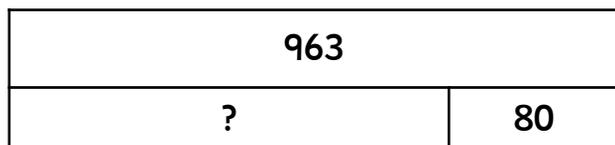
$$818 - 60$$

$$142 - 60$$



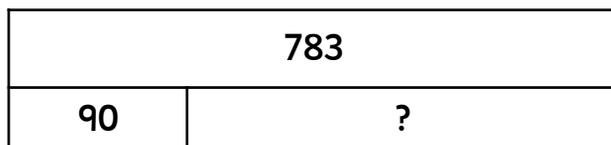
VF

9a. Complete the bar model.



VF

9b. Complete the bar model.



VF

10a. Which subtractions are correct?

A $447 - 50 = 397$

B $737 - 80 = 657$

C $889 - 90 = 809$



VF

10b. Which subtractions are correct?

A $874 - 90 = 784$

B $783 - 90 = 893$

C $619 - 70 = 549$



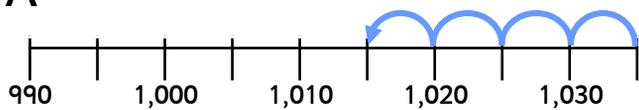
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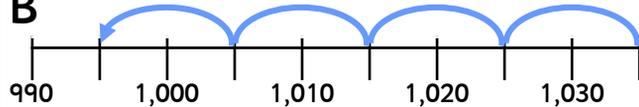
11a. Find the number line representing:

$$1,035 - 40$$

A



B

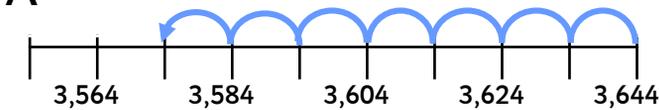


VF

11b. Find the number line representing:

$$3,644 - 70$$

A



B



VF

12a. Which calculations are helpful when finding $2,062 - 80$?

A $80 - 62 = 18$

B $1,000 - 18 = 982$

C $62 - 18 = 44$

Now calculate $2,062 - 80$.



VF

12b. Which calculations are helpful when finding $4,367 - 90$?

A $300 - 23 = 277$

B $90 - 10 = 80$

C $90 - 67 = 23$

Now calculate $4,367 - 90$.



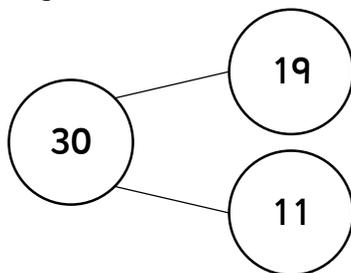
VF

13a. Use the part whole model to help solve the following subtractions.

$$5,019 - 30$$

$$2,719 - 30$$

$$1,009 - 40$$



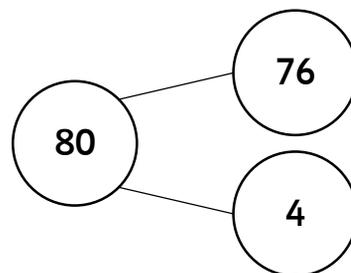
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13b. Use the part whole model to help solve the following subtractions.

$$2,176 - 80$$

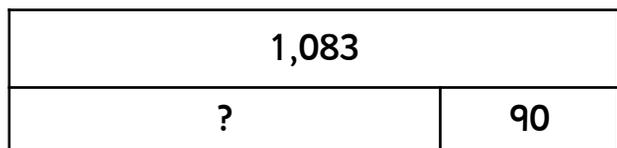
$$876 - 80$$

$$3,076 - 80$$



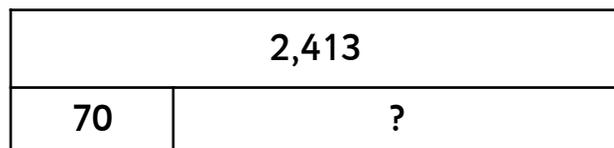
VF

14a. Complete the bar model.



VF

14b. Complete the bar model.



VF

15a. Which subtractions are correct?

A $867 - 60 = 707$

B $1,007 - 80 = 927$

C $4,808 - 70 = 4,738$



VF

15b. Which subtractions are correct?

A $5,714 - 70 = 5,644$

B $2,787 - 90 = 2,797$

C $8,149 - 90 = 7,059$



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Developing

- 1a. **A**
- 1b. **B**
- 2a. **A. $270 - 60 = 210$**
- 2b. **A. $680 - 30 = 650$**
- 3a. **430, 420, 130**
- 3b. **320, 340, 440**
- 4a. **220**
- 4b. **130**
- 5a. **C**
- 5b. **A, B and C**

Expected

- 6a. **A**
- 6b. **A**
- 7a. **A and B. $362 - 80 = 282$**
- 7b. **B. $876 - 90 = 786$**
- 8a. **359, 159, 59**
- 8b. **882, 758, 82**
- 9a. **883**
- 9b. **693**
- 10a. **A and B**
- 10b. **A and C**

Greater Depth

- 11a. **B**
- 11b. **A and B**
- 12a. **A and B**
- 12b. **A and C**
- 13a. **4,989; 2,689; 969**
- 13b. **2,096; 796; 2,996**
- 14a. **993**
- 14b. **2,343**
- 15a. **B and C**
- 15b. **A**