

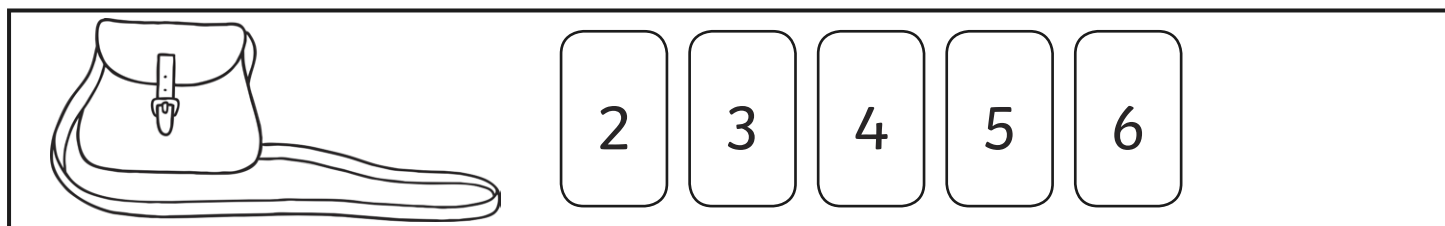


Magic Bag

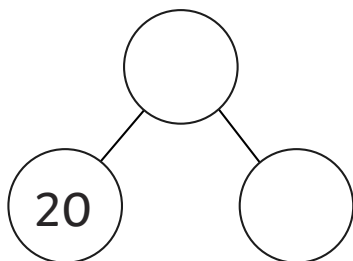
I can recognise the value of each digit in a two-digit number.



Evie has a magic bag. Inside the magic bag are these five digits:



1. Evie selects two digits at random. What two-digit number could she make? Write three: _____ or _____ or _____
2. Evie selects another two digits. She partitions the number. The tens number is 20.



- a. What could the ones number be? _____
- b. What two-digit numbers could she have made?

_____ or _____ or _____ or _____

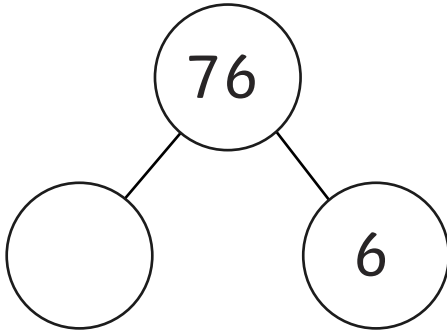
3. Evie makes the number 34. Can she make the number that is 10 more?
Explain your answer.

Evie makes the number 25. Can she make the number that is 10 more?
Explain your answer.



Magic Bag

5. Evie puts another digit into the bag. She makes the number 76.
- What new digit did she put into the bag? _____
 - What number does the new digit represent here? Fill in the part-whole diagram.

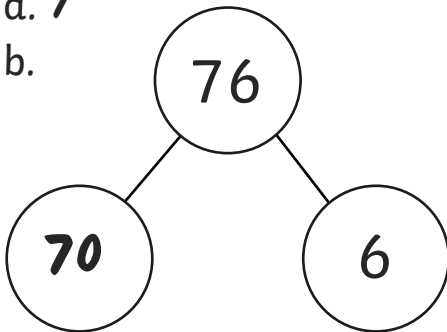


- c. Can you use the same digit to make a different two-digit number, using the other numbers in the bag?
- Write three: _____ or _____ or _____



Answers

1. 23, 24, 25, 26, 32, 34, 35, 36, 42, 43, 45, 46, 52, 53, 54, 56, 62, 63, 64, or 65.
2. a. 3, 4, 5 or 6.
b. 23, 24, 25 or 26.
3. No because 10 more is 44 and there is only one 4 digit. You would need two to make 44.
4. Yes because 10 more than 25 is 35. You can use digits 3 and 5 to make 35.
5. a. 7
b.



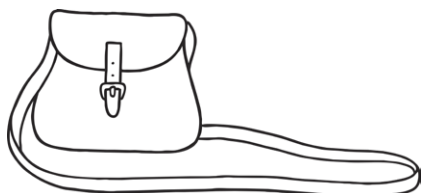


Magic Bag

I can recognise the value of each digit in a two-digit number.



Evie has a magic bag. Inside the magic bag are these five digits:



2

3

4

5

6

1. Evie selects two digits at random. What two-digit number could she make? Write three: _____ or _____ or _____
2. Evie selects another two digits. The number is now odd. What will the ones number not be? _____
3. Evie could make the number 55. True or false? _____
4. Can she make the number that is 20 more than 46? Explain your answer.

5. Evie makes the number 25.
 - a. Can she make the number that is 10 less? What digits would she need?

 - b. Can she make the number that is 20 less? What digits would she need?

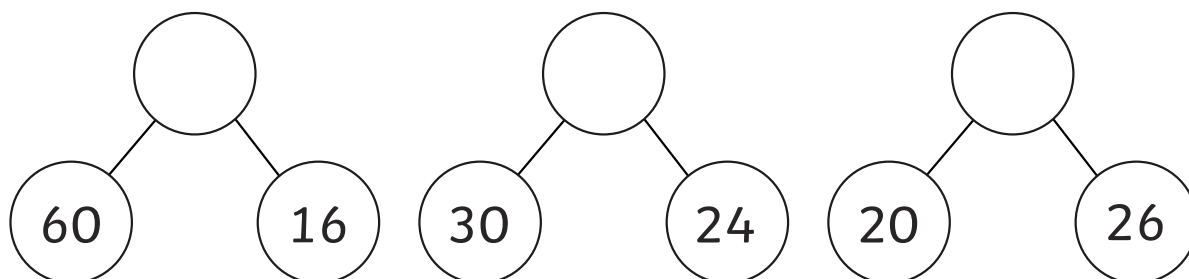


Magic Bag

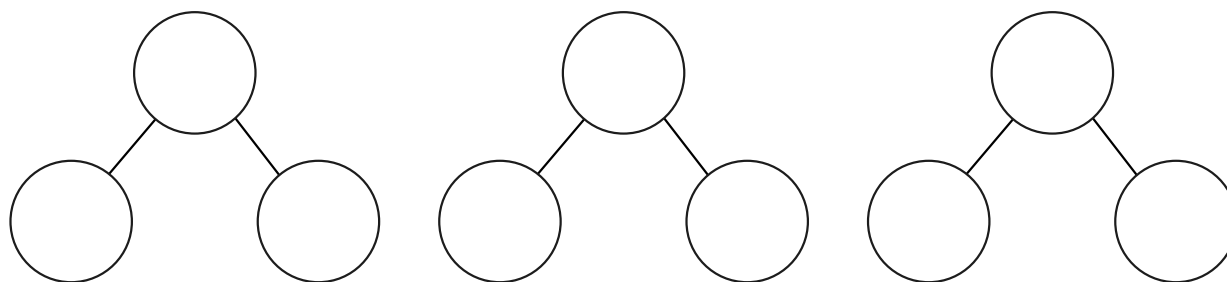
6. Evie puts another digit into the bag. She can now make more odd numbers. What new digit could she have put into the bag? _____

7. Evie has partitioned some numbers.

a. Fill in the part-whole diagrams to show the numbers she has made.



b. Can you partition the numbers differently?

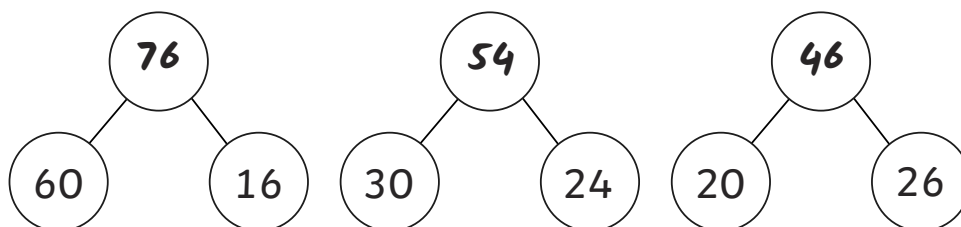




Answers

1. 24, 26, 32, 34, 36, 42, 46, 52, 54, 56, 62, 64
2. 2, 4, 6
3. False. There is only one 5 digit. For 55, you would need two.
4. No because she would need two 6 digits.
5. a. No. To make the number 10 less she would need the digits 1 and 5 but she doesn't have the digit 1.
b. Yes, she could make 20 less. She would need the 5 digit. It would be a one-digit number, the number 5.
6. 1, 7 or 9

7. a.



- b. If the numbers at the bottom total the numbers at the top, the answer is correct.

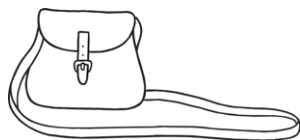


Magic Bag

I can recognise the value of each digit in a two-digit number.



Evie has a magic bag. Inside the magic bag are these five digits:



2

3

4

5

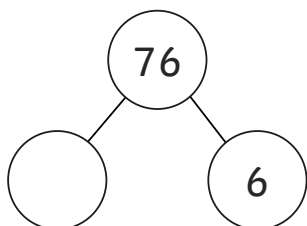
6

1. Evie selects two digits at random. What two-digit number could she make? Write three: _____ or _____ or _____
2. Evie selects another two digits and makes a number.
 - a. The tens number is more than 30. What could the ones number be? _____
 - b. If the ones digit is more than 5, what two-digit number could she have made? _____
3. Evie makes the number 45. Can she make the number that is 10 more? Explain your answer.

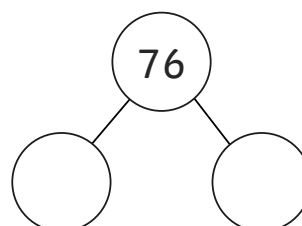
4. Evie makes the number 25.
 - a. Can she make the number that is 10 more? Explain your answer.

 - b. Can she make the number that is 10 less? Explain your answer.

5. Evie adds another digit to the bag. She can now make 20 more than 56.
 - a. What digit did she add to the bag? _____
 - b. What number does that represent here? Fill in the part-whole diagram.



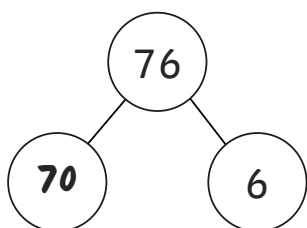
- c. Can you partition the number differently?





Answers

1. 23, 24, 25, 26, 32, 34, 35, 36, 42, 43, 45, 46, 52, 53, 54, 56, 62, 63, 64, 65
2. a. It could be 2, 3 but could also be 4, 5 or 6.
b. 46 or 56
3. No because 10 more is 55. She would need two 5 digits but she only has one.
4. a. Yes she can make 10 more as 10 more is 35. She will need digits 3 and 5.
b. No she cannot make 10 less as 10 less is 15. There is no 1 digit.
5. a. 7
b.



c. 60 and 16, 50 and 26, 40 and 36, 20 and 56, 10 and 66, etc. If both numbers total 76, the answer is correct.