Challenge 1 ⭐

Can you continue the pattern to 100 and describe what is happening?

7 + 3 = 10

17 + 3 = 20

27 + 3 =

Why does this happen?

Can you make a rule about what happens when you add numbers with 7 ones and numbers with 3 ones?

Challenge 2 ⭐

Can you continue the pattern to 10 and describe what is happening?

100 – 5 = 95

90 – 5 =

80 – 5 =

Why does this happen?

Can you make a rule about what happens when you subtract a number with 5 ones from a multiple of 10?

Challenge 3 ⭐

How quickly can you complete these calculations?

8 + 2 =	**68 + 2 =**
18 + 2 =	**78 + 2 =**
28 + 2 =	**88 + 2 =**
38 + 2 =	**98 + 2 =**
48 + 2 =	
58 + 2 =	

Challenge 4 ⭐

How quickly can you complete these calculations?

95 – 3 =	**35 – 3 =**
85 – 3 =	**25 – 3 =**
75 – 3 =	**15 – 3 =**
65 – 3 =	**5 – 3 =**
55 – 3 =	
45 – 3 =	

Speed It Up Challenge Cards **Answers**

Challenge 1	Challenge 2	Challenge 3	Challenge 4
7 + 3 = 10	100 – 5 = 95	8 + 2 = 10	95 – 3 = 92
17 + 3 = 20	90 – 5 = 85	18 + 2 = 20	85 – 3 = 82
27 + 3 = 30	80 – 5 = 75	28 + 2 = 30	75 – 3 = 72
37 + 3 = 40	70 – 5 = 65	38 + 2 = 40	65 – 3 = 62
47 + 3 = 50	60 – 5 = 55	48 + 2 = 50	55 – 3 = 52
57 + 3 = 60	50 – 5 = 45	58 + 2 = 60	45 – 3 = 42
67 + 3 = 70	40 – 5 = 35	68 + 2 = 70	35 – 3 = 32
77 + 3 = 80	30 – 5 = 25	78 + 2 = 80	25 – 3 = 22
87 + 3 = 90	20 – 5 = 15	88 + 2 = 90	15 – 3 = 12
97 + 3 = 100	10 – 5 = 5	98 + 2 = 100	5 – 3 = 2

Challenge 1

If I have 7 ones and I add 3 ones, I will always make a multiple of ten because 7 and 3 make 10.

Challenge 2

5 + 5 = 10 so 10 – 5 = 5

If I take away 5 from any multiple of 10, the answer will always have 5 ones.

Challenge 3

I was quick because if I have 8 ones and I add 2 ones, I will always make a multiple of ten because 8 + 2 = 10.

Challenge 4

I was quick because if I have 5 ones and I subtract 3 ones, the number will always have 2 ones because 5 – 3 = 2.

Challenge 1 ★★

Can you continue the pattern and describe what is happening?

98 – 4 =   68 – 4 =   38 – 4 =   8 – 4 =

88 – 4 =   58 – 4 =   28 – 4 =

78 – 4 =   48 – 4 =   18 – 4 =

Why does this happen?

Can you make a rule about what happens when you subtract a number with 8 ones from a number with 4 ones?

Challenge 2 ★★

How quickly can you complete these calculations?

2 + 6 =   42 + 6 =   82 + 6 =

12 + 6 =   52 + 6 =   92 + 6 =

22 + 6 =   62 + 6 =

32 + 6 =   72 + 6 =

Were you quick?

Can you explain why?

Challenge 3 ★★

How quickly can you complete these calculations?

99 – 6 =   59 – 6 =   19 – 6 =

89 – 6 =   49 – 6 =   9 – 6 =

79 – 6 =   39 – 6 =

69 – 6 =   29 – 6 =

Were you quick?

Can you explain why?

Challenge 4 ★★

Start at 100 and take away 5 repeatedly until you get to zero. Can you describe the pattern and explain what you notice?

Start at 98 and take away 5 for as long as you can. Can you describe the pattern and explain what you notice?

Speed It Up Challenge Cards **Answers**

Challenge 1

98 – 4 = 94

88 – 4 = 84

78 – 4 = 74

68 – 4 = 64

58 – 4 = 54

48 – 4 = 44

38 – 4 = 34

28 – 4 = 24

18 – 4 = 14

8 – 4 = 4

All of these calculations subtract 4 ones from 8 ones. I know 8 – 4 = 4, so these answers all have 4 ones.

Challenge 2

2 + 6 = 8

12 + 6 = 18

22 + 6 = 28

32 + 6 = 38

42 + 6 = 48

52 + 6 = 58

62 + 6 = 68

72 + 6 = 78

82 + 6 = 88

92 + 6 = 98

There are the same number of ones in each calculation. I know that 2 ones and 6 ones make 8 ones, so the answers will all have 8 ones.

Challenge 3

99 – 6 = 93

89 – 6 = 83

79 – 6 = 73

69 – 6 = 63

59 – 6 = 53

49 – 6 = 43

39 – 6 = 33

29 – 6 = 23

19 – 6 = 13

9 – 6 = 3

All of these calculations subtract 6 ones from 9 ones. I know that 9 - 6 = 3, so these answers all have 3 ones.

Challenge 4

100, 95, 90, 85, 80, 75, 70, 65, 60, 55, 50, 45, 40, 35, 30, 25, 20, 15, 10, 5, 0

I'm starting with a multiple of 5 and subtracting 5, so the pattern follows multiples of 5.

98, 93, 88, 83, 78, 73, 68, 63, 58, 53, 48, 43, 38, 33, 28, 23, 18, 13, 8, 3

I'm not starting on a multiple of 5 but I'm subtracting 5 each time. So instead of multiples of 5, I get a repeating pattern of 8.

Challenge 1 ★★★

Take a pack of digit cards. Start at zero and add each number as you turn it over.

Can you use your number facts to help you?

$8 + 2 = 10$

Challenge 2 ★★★

Take a pack of digit cards. Start at 100 and subtract each number as you turn it over.

Can you use your number facts to help you?

$8 + 2 = 10$

Challenge 3 ★★★

How quickly can you complete these calculations?

$3 + 4 =$

$13 + 4 =$

$23 + 4 =$

$8 + 2 = 10$

Continue the pattern.

Make a rule about what you notice.

Now, make up one of your own for a friend to try.

Challenge 4 ★★★

How quickly can you complete these calculations?

$96 - 5 =$

$86 - 5 =$

Continue the pattern.

$8 + 2 = 10$

Make a rule about what you notice.

What would happen if you subtracted 15 each time? Now make up one of your own.

Speed It Up Challenge Cards **Answers**

Challenge 1

Answers will vary depending on cards chosen. Children should use their number facts correctly.

Challenge 2

Answers will vary depending on cards chosen. Children should use their number facts correctly.

Challenge 3

3 + 4 = 7

13 + 4 = 17

23 + 4 = 27

33 + 4 = 37

43 + 4 = 47

53 + 4 = 57

63 + 4 = 67

73 + 4 = 77

83 + 4 = 87

93 + 4 = 97

I was always adding 3 ones to 4 ones, so the answer would always have 7 ones.

Challenge 4

96 – 5 = 91

86 – 5 = 81

76 – 5 = 71

66 – 5 = 61

56 – 5 = 51

46 – 5 = 41

36 – 5 = 31

26 – 5 = 21

16 – 5 = 11

6 – 5 = 1

If I start with 6 ones and take away 5 ones, my answers will have 1 one.

96 – 15 = 81

86 – 15 = 71

76 – 15 = 61

66 – 15 = 51

56 – 15 = 41

46 – 15 = 31

36 – 15 = 21

26 – 15 = 11

16 – 15 = 1

The ones have the same pattern, but I take away ten as well.