Spring Test 1

Teacher guidance

28 minutes

Skills and knowledge covered in this test:

- Count in multiples of 6, 7, 9, 25 and 1000 [4N1]
- Find 1000 more or less than a given number [4N2b]
- Add and subtract numbers with up to 4 digits [4C2]
- Estimate and use inverse operations to check answers to a calculation [4C3]
- Use multiplication and division facts up to 12 × 12 [4C6a]
- Use place value and known and derived facts to multiply and divide mentally [4C6b]
- Multiply by 0 and 1; divide by 1 [4C6b]

- Multiply together three numbers [4C6b]
- Multiply 2-digit and 3-digit numbers by single-digit numbers using written method [4C7]
- Count up and down in hundredths [4F1]
- Add and subtract fractions with same denominator [4F4]
- Compare numbers with the same number of decimal points [4F8]
- Divide a single- or 2-digit number by 10 or 100 [4F9]

Focus activity: Add and subtract fractions with the same denominator, extending beyond 1

4F4

You will need: strips of plain paper of identical length, scissors, dice.

Step 1 Prepare some of paper with a length relevant to the fraction to be explored. For example, use a 20 cm strip for fifths, with each fifth measuring 4 cm.

Step 2 Give children four identical strips of paper. Ask them to fold or measure and cut two strips into the appropriate fractions, labelling each fraction piece. Label each of the whole strips as 1 and use these as a base.

Step 3 Player 1 aims to make 2 from their fifths and Player 2 aims to reach zero, having removed all their fifths. Each child has 10 fifths.

Step 4 Players take it in turns to roll the dice and line up (Player 1) or remove (Player 2) that number of fifths from their own fifths to reach their goal. The dice shows them how many fifths to add or remove. Players score one point for reaching their goal first. The first player to reach five points is the winner.

Step 5 Play the game one last time recording each turn. So if Player 1 rolled a 4 and then a 3, they would record $0 + \frac{4}{5} = \frac{4}{5}$; $\frac{4}{5} + \frac{3}{5} = \frac{7}{5}$ or $1\frac{2}{5}$. If Player 2 rolled a 6 and then a 3, they could record this as 2 or $\frac{10}{5} - \frac{6}{5} = \frac{4}{5}$, $\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$.

Step 6 Children swap roles. Repeat with a different fraction in another session.

Qu. No.	Question	Answer	Mark	Domain ref.	Focus activity
1	$14 + 5 = \square$	19	1	1C2a	Year 1 Summer Test 2, Year 1 Summer Test 4
2	$2 \times 5 = \square$	10	1	2C6	Year 2 Spring Test 1, Year 2 Spring Test 2
3	$70 - 10 - 10 = \square$	50	1	2N1	Year 2 Autumn Test 5
4	$9 \times 1 = \square$	9	1	4C6b	Year 4 Autumn Test 1
5	$\square = 7 + 6 + 2$	15	1	2C2a	Year 2 Autumn Test 4
6	$78 + 8 = \square$	86	1	2C2a	Year 2 Autumn Test 1
7	$\square + 17 = 30$	13	1	2C3	Year 2 Summer Test 1, Year 2 Summer Test 5
8	$\frac{1}{2}$ of $50 = \square$	25	1	2F1a	Year 2 Summer Test 3
9	$20 \times 0 = \square$	0	1	4C6b	Year 4 Autumn Test 2
10	$476 + 100 = \square$	576	1	3N2b	Year 3 Autumn Test 3
11	$0.04 + 0.01 + 0.01 = \square$	0.06	1	4F1	Year 4 Spring Test 5
12	$754 - 466 = \square$	288	1	3C2	Year 3 Summer Test 1
13	$7 \times 5 = \square$	35	1	4C6a	Year 2 Spring Test 2, Year 4 Summer Test 1
14	$4758 - 1000 = \square$	3758	1	4N2b	Year 4 Summer Test 3
15	$\square = 8 \times 8$	64	1	3C6	Year 3 Spring Test 5
16	$\frac{2}{9} + \frac{7}{9} = \square$	$\frac{9}{9}$ or 1	1	4F4	Year 4 Spring Test 1
17	$\square = 6 \times 4 \times 2$	48	1	4C6b	Year 4 Summer Test 4
18	$\frac{5}{6}$ of $12 = \square$	10	1	3F1b	Year 3 Autumn Test 6, Year 3 Summer Test 3
19	$35 \times 8 = \square$	280	1	3C7	Year 3 Spring Test 6, Year 3 Summer Test 5
20	$\frac{9}{12} - \frac{8}{12} = \square$	$\frac{1}{12}$	1	4F4	Year 4 Spring Test 1
21	$150 \div \square = 25$	6	1	4N1	Year 4 Summer Test 1
22	$\square = 9 \times 6$	54	1	4C6a	Year 4 Spring Test 6
23	$\square = 6 \times 30 \times 4$	720	1	4C6b	Year 4 Summer Test 4, Year 4 Summer Test 5
24	$178 \times 8 = \square$	1424	1	4C7	Year 4 Summer Test 5, Year 4 Summer Test 6
25	$\square = \frac{1}{6} + \frac{4}{6} + \frac{2}{6}$	$\frac{7}{6}$ or $1\frac{1}{6}$	1	4F4	Year 4 Spring Test 1
26	$7489 - \square = 2959$	4530	1	4C3	Year 4 Autumn Test 4, Year 4 Autumn Test 5, Year 4 Autumn Test 6
27	$90 \times 8 = \square$	720	1	4C6b	Year 4 Summer Test 2
28	$75 \div 100 = \square$	0.75 or $\frac{3}{4}$	1	4F9	Year 4 Spring Test 4, Year 4 Spring Test 5