YEAR 6 ARITHMETIC PRACTICE TESTS

Spring Test 5

Teacher guidance

Skills and knowledge needed for this test:

- Addition and subtraction of two numbers with more than four digits
- Addition and subtraction of whole numbers and mixed decimals
- Addition and subtraction of fractions with multiples of the same denominator
- Complements of 1
- Square and cube numbers
- Multiplication and division of whole numbers and decimals by 10, 100 and 1000

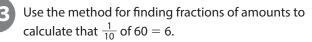
New: Finding percentages of amounts

A teaching suggestion



Display 10%, and ask the children what it means. Establish that $10\% = \frac{10}{100} = \frac{1}{10}$.

Display 10% of 60. Agree that it is the same as finding $\frac{1}{10}$ of 60.



Keep finding 10% of other numbers that end in zero until the children are quick and confident in finding 10% by dividing by 10.



Extend to finding 20%, 30% and so on by multiplying up the amount for 10%. Then extend to finding 5% by halving the amount for 10%. For example:

To find 35% of 80 10% of 80 = 8 30% of 80 = $3 \times 8 = 24$ 5% of 80 = $\frac{1}{2}$ of 8 = 4 35% of 80 = 24 + 4 = 28

- Formal written method for short multiplication and short division with remainders
- Formal written method for long multiplication and long division by a two-digit number
- Multiplication of pairs of simple fractions
- Finding fractions of amounts
- Missing number calculations, including balanced calculations, with all four operations
- Calculations with brackets

Question number	Question	Answer	Marks	Related test
1	6 ² =	36	1	Y5 Autumn Test 4
2	600 × 100 =	60 000	1	Y5 Autumn Test 5
3	0.5 = 0.5	1	1	Y5 Summer Test 4
4	6759 ÷ 8 =	844 r7	1	Y5 Autumn Test 6
5	= 3287 × 9	29 583	1	Y5 Spring Test 3
6	7435 = 🗌 × 5	1487	1	Y5 Spring Test 5, Y4 Autumn Test 3
7	$\frac{1}{2} + \frac{1}{6} = \square$	$\frac{4}{6}$ (or equiv)	1	Y5 Spring Test 6
8	$\square \times 5 = 28 + 22$	10	1	Y6 Autumn Test 4
9	15 - (3 + 4) =	8	1	Y6 Spring Test 1
10	$\frac{2}{9}$ of 36 =	8	1	Y6 Autumn Test 3
11	$\frac{1}{4} \times \frac{1}{5} = \square$	$\frac{1}{20}$ (or equiv)	1	Y6 Spring Test 2
12	10% of 320 =	32	1	Y6 Spring Test 5
13	$\frac{2}{3} + \frac{14}{9} =$	2 ² / ₉ (or equiv)	1	Y6 Autumn Test 2
14	7.6341 ÷ 1000 =	0.0076341	1	Y6 Spring Test 3
15	8346 + 59 + 645 931 =	654 336	1	Y5 Spring Test 4
16	³ = 8	2	1	Y5 Spring Test 1
17	5% of 140 =	7	1	Y6 Spring Test 5
18	= 384.2 - 79.56	304.64	1	Y6 Autumn Test 5
19	5.69 = 12.4 -	6.71	1	Y6 Autumn Test 5, Y3 Autumn Test 1
20	6000 - 3058 =	2942	1	Y5 Autumn Test 3
21	6356 ÷ 4 =	1589	1	Y5 Spring Test 5
22	6 = 2154 ÷	359	1	Y5 Spring Test 5, Y4 Autumn Test 3
23	8000 = 5843	2157	1	Y5 Autumn Test 3, Y3 Autumn Test 1
24	615 × 62 =	38 130	2*	Y6 Autumn Test 1
25	6014 ÷ 31 =	194	2*	Y6 Autumn Test 6
26	= 15% of 360	54	1	Y6 Spring Test 5
27	8629 × 54 =	465 966	2*	Y6 Spring Test 4
Total marks				

* award 1 mark if there is one error in the working