




Year 6 Maths Gap Quiz

Answer Sheet



THIRD SPACE
LEARNING

1. 406 010
[Number—number and place value: Place value up to a million—check for place holders.]
2. 7 tenths or 0.7 or $\frac{7}{10}$
[Number—fractions including decimals and percentages: Place value up to 2 decimal places]
3. -18°C
[Number—number and place value: Interpret negative numbers in context]
4. 7.09
[Number—multiplication and division: Divide whole numbers by 100]
5. 37 000
[Number—number and place value: Round any number to the nearest 1 000]
6. 246
[Number—number and place value: Read Roman numerals to 1000]
7. 14, 11, 8, 5, 2, -1
[Number—number and place value: Count backwards with positive and negative whole numbers, including through 0]
8. 18 593
[Number—addition and subtraction: Subtract whole numbers with more than 4 digits]

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- 9a 43 323
[Number—addition and subtraction: Add numbers mentally with increasingly large numbers]
- 9b An explanation which demonstrates an efficient strategy like: Adding on 3000 and adjusting by 1
10. d) 8400
[Number—addition and subtraction: Use rounding to check answers to calculations]
11. 16 389 bags of crisps
[Number—addition and subtraction: Solve addition and subtraction multi-step problems in contexts]
12. 1, 36, 2, 18, 3, 12, 4, 9, 6
[Number—multiplication and division: Identify factors, including finding all factor pairs of a number]
13. Both 7 and 13 are prime as each number only has 1 and itself as factors.
[Number—multiplication and division: Know and use the vocabulary of prime numbers]
14. 2, 2 and 3 or $2 \times 2 \times 3$
[Number—multiplication and division: Know and use the vocabulary of prime factors]
15. 22 155
[Number—multiplication and division: Multiply numbers up to 4 digits by a one-digit number using formal written methods]

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16. 1706 r1 or 1706 $\frac{1}{5}$ or 1706.2
[Number—multiplication and division: Divide numbers up to 4 digits by a one-digit number using the formal written method of short division]
17. a) 64 b) 125
[Number—multiplication and division: recognise and use square and cube numbers, and the notation for squared (2) and cubed (3)]
18. 6
[Number—multiplication and division: Finding common factors of 2 numbers]
19. 49 300
[Number—multiplication and division: Multiply whole numbers, and those involving decimals by 1000]
20. Jayden has 7 marbles; Abigail has 28 marbles; Tom has 70 marbles
[Number—multiplication and division: Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates]
21. Any combination of 6 out of 8 sections shaded in.
[Number—fractions (including decimals and percentages): Identify equivalent fractions of a given fraction, represented visually]

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22a $\frac{4}{7} = \frac{12}{21}$ 22b $9\frac{9}{36} = 1\frac{1}{4}$

[Number—fractions including decimals and percentages:
Write equivalent fractions of a given fraction]

23. $\frac{7}{8}$ $\frac{3}{4}$ $\frac{9}{16}$ $\frac{1}{2}$

[Number—fractions including decimals and percentages:
Compare and order fractions whose denominators are all
multiples of the same number]

24. $= 45\% = 0.45$

[Number—fractions including decimals and percentages:
Recognise the per cent symbol (%) and understand that per cent
relates to 'number of parts per 100'; to read and write decimal
numbers as fractions; percentages, decimals and fractions are
different ways of expressing proportions]

25. a) $\frac{9}{7}$ b) $1\frac{2}{7}$

[Number—fractions including decimals and percentages: Add
fractions with the same denominator; recognise mixed number
and improper fractions and convert from one form to the other]

26. $\frac{10}{16}$ or $\frac{5}{8}$

[Number—fractions including decimals and percentages:
Subtract fractions with denominators that are multiples of the
same number]

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27. $\frac{33}{9}$ or $3\frac{6}{9}$ or $3\frac{2}{3}$ or $\frac{11}{3}$

[Number—fractions including decimals and percentages.
Multiply mixed numbers by whole numbers]

28. 49

[Number—fractions including decimals and percentages.
Round decimals with 2 decimal places to the nearest whole
number]

We hope that your pupils enjoyed our Year 6 Maths Gaps Quiz and it has given you insight regarding your pupils' gaps and areas to work on.

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Kevin Imbush, Somers Heath Primary School Thurrock, Essex 2014

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