Mathematics
Arithmetic Assessment

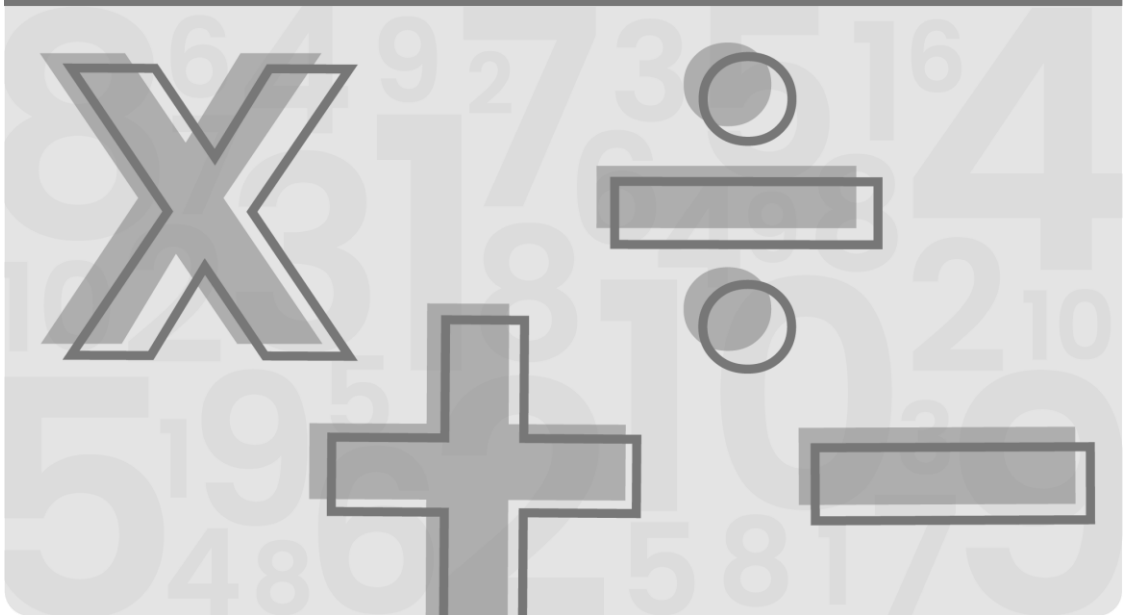## Teacher Pack

Classroom secrets

Arithmetic Assessment Marking Guidance

Marks should be awarded in the following way:

- For one-mark questions, the correct answer must be indicated either in or alongside the answer box, within the area provided for working out the answer, or alongside the question itself.

- For two-mark questions, two marks are awarded for the correct answer (indicated either in or alongside the answer box, within the area provided for working out the answer, or alongside the question itself) or, if the answer is incorrect, one mark can be awarded for the complete use of a correct formal method with no more than one arithmetic error.

Answers can be given in any form (for example, as a diagram, symbol or words) as long as the meaning can be understood.

Answers should usually be given as a single value in their simplest form. For example, 51 x 10 should be given as 510, not 500 + 10. Marks can be awarded for answers that are equivalent, but these must be accurate. For example, $\frac{1}{8}$ must be given as 0.125

For answers involving fractions, correct equivalent fractions can be awarded a mark or marks. For example $\frac{1}{2}$ can be given as $\frac{3}{6}$. Where an answer is given as a mixed number, the fraction paired with the integer must be a proper fraction. For example, $2\frac{2}{7}$ is acceptable, but $3\frac{9}{5}$ would not be awarded a mark or marks. Mixed number answers can be awarded a mark or marks where they are given as improper fractions. For example, $1\frac{2}{7}$ can be given as $\frac{9}{7}$.

Where more than one answer is given, all answers given must be correct. A mark or marks cannot be awarded for a mixture of correct and incorrect answers.

Where a comma is used as a thousands separator within an answer, and is positioned incorrectly, the mark or marks can be awarded if the digits are in the correct order. If any other symbol is used (for example, a decimal point or an apostrophe) the mark or marks cannot be awarded.

Where an answer is miscopied from the end of working to the answer box, a mark or marks can still be awarded if the incorrect answer in the answer box is due to transposed digits in a number (for example, 165 is written as 516) or only one digit has been changed in a number of 4 or more digits (for example, 1,943 is written as 1,948).

The questions in each of these assessments cover the content domains from the 2022 key stage 2 arithmetic paper. The content domain coverage is listed below. If two or more domain references are given, the primary reference is given first.

A guidance document giving further information about content domains can be found on the Standards and Testing Agency's website.

Question	Domain reference
1.	4C2
2.	4C6b
3.	3N2b
4.	4C6b
5.	3C1
6.	4F8/5F10
7.	4C6b
8.	4C6b
9.	4C2
10.	5C6b
11.	4C6b
12.	4C6b
13.	4C6b
14.	5C2
15.	4C7
16.	6F9a
17.	6C7b
18.	6F4
19.	6C7a
20.	6F9a
21.	6F4
22.	5F5
23.	FF8/5F10
24.	6F5b
25.	6F4
26.	FF8/5F10
27.	6R2
28.	6R2
29.	6C7b
30.	6R2
31.	6F4
32.	6F4
33.	6F4
34.	6F4
35.	6C9
36.	5F5

Arithmetic Assessment Answers

These answers are for KS2-2022 Pack 1 Set 1

1. 4,998

2. 597

3. 813

4. 1,100

5. 594

6. 10.38

7. 40

8. 107

9. 3,679

10. 16,800

11. 60

12. 240

13. 170

14. 693,000

15. 2,748

16. 0.395

17. 8 r33

18. $\dfrac{5}{6}$

19. 56,066

20. 35,580

21. 6

22. 49

23. 3.707

24. $\dfrac{1}{27}$

25. $\dfrac{11}{18}$

26. 44.794

27. 1,120

28. 240

29. 38

30. 237

31. $\dfrac{1}{63}$

32. $4\dfrac{10}{21}$

33. $6\dfrac{2}{3}$

34. $10\dfrac{4}{5}$

35. 14

36. 240

Arithmetic Assessment Answers

These answers are for KS2-2022 Pack 1 Set 2

1. 3,600
2. 556
3. 724
4. 1,200
5. 315
6. 11.09
7. 70
8. 124
9. 2,562
10. 7,200
11. 30
12. 120
13. 300
14. 594,000
15. 4,072
16. 0.957
17. 22 r8
18. $\dfrac{7}{8}$
19. 36,708
20. 58,340
21. $3\dfrac{1}{5}$
22. 54
23. 1.718
24. $\dfrac{1}{25}$
25. $\dfrac{15}{56}$
26. 21.781
27. 585
28. 480
29. 46
30. 201
31. $\dfrac{1}{28}$
32. $2\dfrac{11}{28}$
33. $7\dfrac{8}{9}$
34. $6\dfrac{7}{8}$
35. 6
36. 320

Arithmetic Assessment Answers

These answers are for KS2-2022 Pack 1 Set 3

1. 7,912

2. 0

3. 443

4. 700

5. 340

6. 7.94

7. 30

8. 148

9. 1,635

10. 88,000

11. 40

12. 300

13. 360

14. 495,000

15. 3,496

16. 0.215

17. 54 r9

18. $\dfrac{3}{4}$

19. 27,838

20. 24,370

21. $2\dfrac{5}{7}$

22. 32

23. 1.419

24. $\dfrac{1}{42}$

25. $\dfrac{8}{15}$

26. 42.138

27. 1,530

28. 360

29. 42

30. 122

31. $\dfrac{1}{12}$

32. $2\dfrac{21}{40}$

33. $8\dfrac{2}{3}$

34. $4\dfrac{2}{3}$

35. 20

36. 560

These answers are for KS2-2022 Pack 1 Set 4

1. 3,858

2. 0

3. 987

4. 500

5. 426

6. 15.96

7. 90

8. 143

9. 1,753

10. 61,600

11. 70

12. 120

13. 320

14. 594,000

15. 5,408

16. 0.952

17. 26 r6

18. $\dfrac{7}{8}$

19. 36,946

20. 22,450

21. $3\dfrac{2}{5}$

22. 24

23. 4.139

24. $\dfrac{1}{20}$

25. $\dfrac{16}{63}$

26. 54.581

27. 2,590

28. 120

29. 52

30. 436

31. $\dfrac{2}{63}$

32. $1\dfrac{14}{15}$

33. $6\dfrac{6}{7}$

34. $9\dfrac{3}{4}$

35. 9

36. 240

Arithmetic Assessment Answers

These answers are for KS2-2022 Pack 1 Set 5

1. 7,605

2. 0

3. 446

4. 900

5. 980

6. 17.14

7. 80

8. 135

9. 3,854

10. 5,600

11. 100

12. 350

13. 240

14. 792,000

15. 3,396

16. 0.456

17. 6 r8

18. $\dfrac{7}{9}$

19. 20,087

20. 34,650

21. $3\dfrac{4}{7}$

22. 32

23. 3.005

24. $\dfrac{1}{72}$

25. $\dfrac{5}{6}$

26. 43.987

27. 1,540

28. 240

29. 52

30. 124

31. $\dfrac{13}{72}$

32. $3\dfrac{19}{45}$

33. $5\dfrac{6}{7}$

34. $4\dfrac{3}{4}$

35. 6

36. 250