

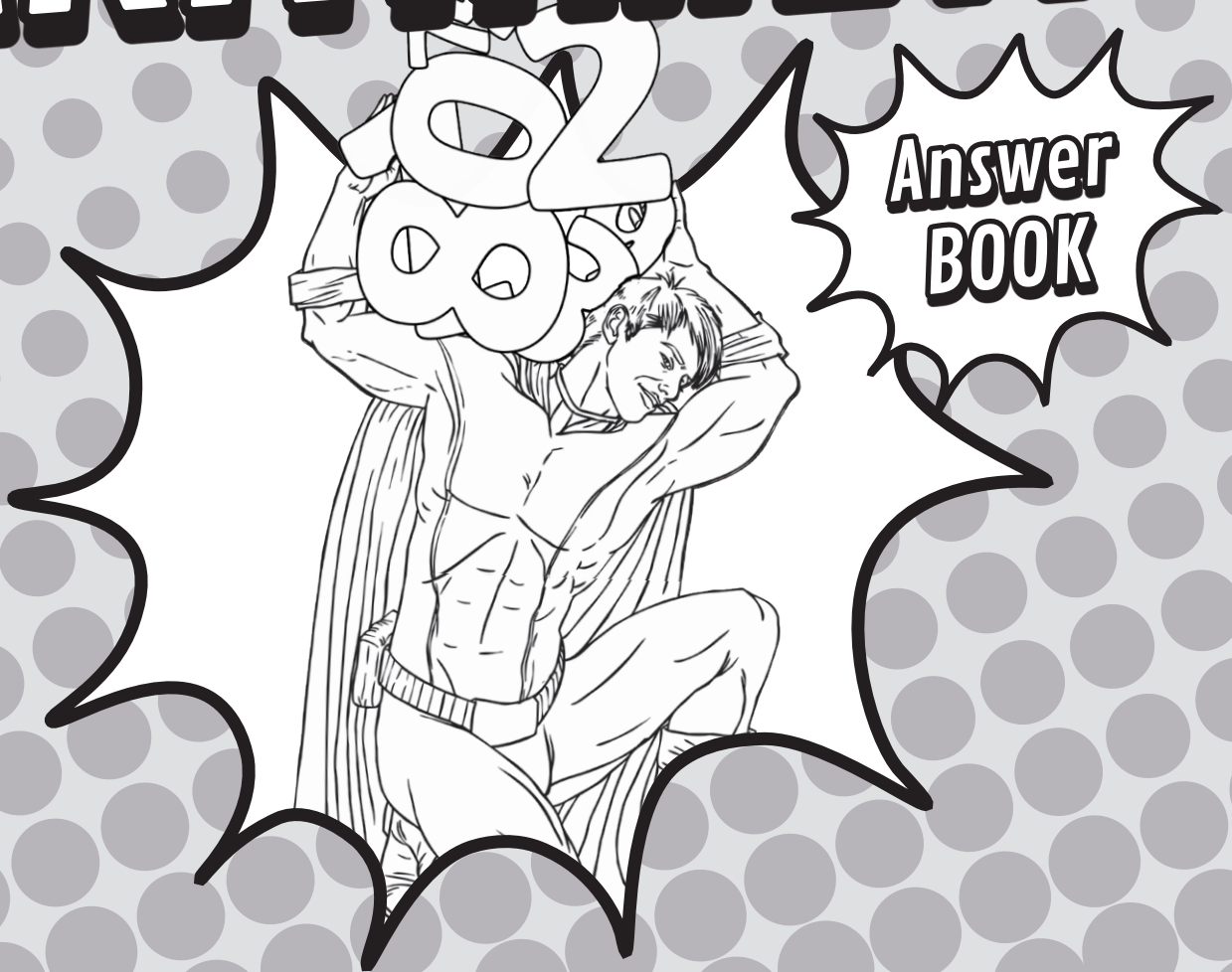
**STUDY
SQUAD**

KS2 Maths

SATs Practice Workbook

Ages 10-11

ARITHMETIC



**Answer
BOOK**



Boost test confidence and results with our curriculum-aligned bite-sized revision.

Section 1 - Calculating with Whole Numbers

Page 3-4 – Written Addition

- | | |
|-----------|-----------|
| 1) 562 | 5) 9343 |
| 2) 2301 | 6) 33 791 |
| 3) 7262 | 7) 19 412 |
| 4) 10 571 | 8) 5007 |
-

Page 5-6 – Written Subtraction

- | | |
|-----------|-----------|
| 1) 69 930 | 5) 162 |
| 2) 2823 | 6) 7291 |
| 3) 3249 | 7) 48 868 |
| 4) 9990 | 8) 31 789 |
-

Page 7-8 – Multiplying by 10, 100 and 1000

- | | |
|------------|--------------|
| 1) 11 010 | 5) 4080 |
| 2) 681.2 | 6) 8 097 000 |
| 3) 500 200 | 7) 12 890 |
| 4) 39 900 | 8) 10 009.3 |
-

Page 9-10 – Dividing by 10, 100 and 1000

- | | |
|---------|-------------|
| 1) 200 | 5) 45.5 |
| 2) 1547 | 6) 1.637 |
| 3) 340 | 7) 643.01 |
| 4) 0.67 | 8) 3090.482 |
-

Page 11-12 – Multiples

- | | |
|-------|-------|
| 1) 56 | 5) 54 |
|-------|-------|

- | | |
|---------|--------|
| 2) 121 | 6) 48 |
| 3) 1080 | 7) 200 |
| 4) 0 | 8) 660 |
-

Page 13-14 – Factors

- | | |
|-------|-------|
| 1) 7 | 5) 17 |
| 2) 4 | 6) 13 |
| 3) 70 | 7) 40 |
| 4) 80 | 8) 60 |
-

Page 15-16 – Square and Cube Numbers

- | | |
|-------|--------|
| 1) 27 | 5) 76 |
| 2) 64 | 6) 117 |
| 3) 65 | 7) 46 |
| 4) 57 | 8) 153 |
-

Page 17-18 – Short Multiplication

- | | |
|---------|-----------|
| 1) 460 | 5) 24 624 |
| 2) 204 | 6) 3367 |
| 3) 5442 | 7) 18 306 |
| 4) 6558 | 8) 52 884 |
-

Page 19-20 – Long Multiplication

Notes for this section:

For correct answers award two marks.

If the answer is incorrect, award one mark for a formal method of long multiplication

(example below) with no more than one arithmetical error.

Do not award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.

- | | |
|-----------|------------|
| 1) 12 053 | 4) 23 040 |
| 2) 20 996 | 5) 38 862 |
| 3) 32 062 | 6) 151 110 |
-

Page 21-22 – Short Division without Remainders

- | | |
|--------|--------|
| 1) 62 | 5) 40 |
| 2) 114 | 6) 157 |
| 3) 248 | 7) 269 |
| 4) 70 | 8) 759 |
-

Page 23-24 – Short Division with Remainders

Notes for this section:

For all questions in this section, accept the remainder given as a fraction or an exact decimal.

- | | |
|-------------|-------------|
| 1) 574 r 1 | 5) 1483 r 2 |
| 2) 2762 r 2 | 6) 780 r 1 |
| 3) 245 r 5 | 7) 1660 r 2 |
| 4) 1554 r 4 | 8) 358 r 8 |
-

Page 25-26 – Long Division without Remainders

Notes for this section:

For correct answers award two marks.

If the answer is incorrect, award one mark for a formal method of division which contains

no more than one arithmetical error.

- | | |
|--------|--------|
| 1) 57 | 4) 411 |
| 2) 39 | 5) 321 |
| 3) 481 | 6) 235 |
-

Page 27-28 – Long Division with Remainders

Notes for this section:

For all questions in this section, accept the remainder given as a fraction or an exact decimal.

For correct answers award two marks.

If the answer is incorrect, award one mark for a formal method of division which contains no more than one arithmetical error.

- | | |
|-------------|-------------|
| 1) 23 r 5 | 4) 234 r 18 |
| 2) 24 r 7 | 5) 307 r 14 |
| 3) 117 r 11 | 6) 106 r 19 |
-

Page 29-30 – Inverse Operations

- | | |
|--------|--------|
| 1) 7 | 5) 8 |
| 2) 305 | 6) 630 |
| 3) 688 | 7) 30 |
| 4) 70 | 8) 80 |
-

Page 31-32 – Order of Operations (BIDMAS)

- | | |
|-------|-------|
| 1) 21 | 5) 31 |
| 2) 12 | 6) 10 |
| 3) 35 | 7) 3 |
| 4) 36 | 8) 9 |

Page 33-34 – Calculating with Whole Numbers Mixed Practice

- | | |
|----------------------------|-------------|
| 1) 369 | 7) 11 262 |
| 2) 5050 | 8) 2744 |
| 3) 4277 | 9) 80 300 |
| 4) 759r5 or 759.625 or 759 | 10) 4 |
| 5) 9 | 11) 415 |
| 6) 30 | 12) 332 976 |

Section 2 – Calculating with Decimals**Page 37-38 – Adding Decimals**

- | | |
|-----------|------------|
| 1) 7.62 | 5) 41.099 |
| 2) 119.95 | 6) 933.165 |
| 3) 9.38 | 7) 17.837 |
| 4) 7.623 | 8) 320.653 |

Page 39-40 – Subtracting Decimals

- | | |
|----------|------------|
| 1) 5.4 | 5) 5.74 |
| 2) 5.31 | 6) 541.573 |
| 3) 6.7 | 7) 7.719 |
| 4) 30.53 | 8) 16.938 |

Page 41-42 – Multiplying with Decimals

- | | |
|---------|----------|
| 1) 4 | 5) 97.2 |
| 2) 80 | 6) 50.32 |
| 3) 0.27 | 7) 19.6 |
| 4) 108 | 8) 542.7 |

Page 43-44 – Calculating with Decimals Mixed Practice

- | | |
|-----------|------------|
| 1) 82.59 | 7) 0.511 |
| 2) 19.428 | 8) 90.66 |
| 3) 8.422 | 9) 100 |
| 4) 2.076 | 10) 19.5 |
| 5) 4100 | 11) 44.7 |
| 6) 10 | 12) 38.526 |



Section 3 – Fractions

Notes for this section: Mark any answer correct which is an equivalent fraction to those given.

Page 47-48 – Adding Fractions with the Same Denominator

- | | |
|------------------------------------|--------------------------------------|
| 1) $\frac{5}{8}$ | 5) $\frac{4}{4}$ or 1 |
| 2) $\frac{7}{8}$ | 6) $\frac{9}{6}$ or $1\frac{1}{2}$ |
| 3) $\frac{8}{10}$ or $\frac{4}{5}$ | 7) $\frac{15}{12}$ or $1\frac{1}{4}$ |
| 4) $\frac{8}{6}$ or $1\frac{3}{5}$ | 8) $\frac{16}{8}$ or 2 |
-

Page 49-50 – Adding Fractions with Different Denominators

- | | |
|------------------------------------|--|
| 1) $\frac{7}{10}$ | 5) $\frac{11}{12}$ |
| 2) $\frac{9}{12}$ or $\frac{3}{4}$ | 6) $\frac{19}{15}$ or $1\frac{4}{15}$ |
| 3) $\frac{8}{15}$ | 7) $\frac{31}{20}$ or $1\frac{11}{20}$ |
| 4) $\frac{5}{9}$ | 8) $\frac{41}{24}$ or $1\frac{17}{24}$ |
-

Page 51-52 – Subtracting Fractions with the Same Denominator

- | | |
|-------------------------------------|------------------------------------|
| 1) $\frac{3}{10}$ | 5) $\frac{8}{20}$ $\frac{2}{5}$ |
| 2) $\frac{5}{11}$ | 6) $\frac{8}{16}$ or $\frac{1}{2}$ |
| 3) $\frac{15}{20}$ or $\frac{3}{4}$ | 7) $\frac{10}{10}$ or 1 |
| 4) $\frac{10}{15}$ or $\frac{2}{3}$ | 8) $\frac{12}{6}$ or 2 |
-

Page 53-54 – Subtracting Fractions with Different Denominators

- | | |
|-----------------------------------|--------------------|
| 1) $\frac{3}{10}$ | 5) $\frac{3}{10}$ |
| 2) $\frac{3}{6}$ or $\frac{1}{2}$ | 6) $\frac{5}{12}$ |
| 3) $\frac{1}{12}$ | 7) $\frac{5}{8}$ |
| 4) $\frac{7}{15}$ | 8) $\frac{13}{20}$ |
-

Page 55-56 – Adding and Subtracting Mixed Numbers

- | | |
|--------------------------------------|--|
| 1) $3\frac{5}{10}$ or $3\frac{1}{2}$ | 5) $2\frac{5}{12}$ or $2\frac{10}{24}$ |
| 2) 3 | 6) $\frac{11}{15}$ |
| 3) $5\frac{7}{15}$ | 7) $\frac{5}{7}$ |
| 4) $5\frac{1}{12}$ | 8) $4\frac{1}{8}$ |
-

Page 57-58 – Multiplying Fractions

- | | |
|------------------------------------|--------------------------------------|
| 1) $\frac{2}{6}$ or $\frac{1}{3}$ | 5) $\frac{35}{3}$ or $11\frac{2}{3}$ |
| 2) $\frac{5}{4}$ or $1\frac{1}{4}$ | 6) $\frac{12}{20}$ or $\frac{3}{5}$ |
| 3) $\frac{3}{12}$ or $\frac{1}{4}$ | 7) $\frac{370}{10}$ or 37 |
| 4) $\frac{8}{5}$ or $1\frac{3}{5}$ | 8) $\frac{18}{50}$ or $\frac{9}{25}$ |
-

Page 59-60 – Dividing Fractions

- | | |
|------------------------------------|-------------------------------------|
| 1) $\frac{2}{9}$ | 5) $\frac{3}{40}$ |
| 2) $\frac{3}{20}$ | 6) $\frac{7}{36}$ |
| 3) $\frac{4}{20}$ or $\frac{1}{5}$ | 7) $\frac{6}{10}$ or $\frac{1}{10}$ |
| 4) $\frac{3}{16}$ | 8) $\frac{3}{81}$ or $\frac{1}{27}$ |
-

Page 61-62 – Percentages

- | | |
|--------|---------|
| 1) 540 | 5) 80 |
| 2) 780 | 6) 495 |
| 3) 69 | 7) 3825 |
| 4) 270 | 8) 238 |
-

Page 63-64 – Fractions of Amounts

- | | |
|-------|--------|
| 1) 24 | 5) 480 |
| 2) 18 | 6) 105 |
-

- 3) 400 7) 150
4) 450 8) $87\frac{1}{2}$

Page 65-66 – Fractions Mixed Practice

- 1) $\frac{6}{40}$ or $\frac{3}{20}$ 7) $\frac{1}{30}$
2) $\frac{9}{20}$ 8) $\frac{36}{35}$ or $1\frac{1}{35}$

- 3) 168 9) 231
4) $\frac{18}{15}$ or $1\frac{1}{5}$ 10) $\frac{2}{20}$ or $\frac{1}{10}$
5) $\frac{43}{24}$ or $1\frac{19}{24}$ 11) $4\frac{3}{27}$ or $4\frac{1}{9}$
6) $\frac{8}{15}$ 12) $\frac{6}{20}$ or $\frac{3}{10}$

Section 2 – Mixed Arithmetic Challenges

Page 69 – Challenge 1

- 1) 0 6) 495
2) 1800 7) 14.07
3) 70 8) 4272
4) 12 010 9) $\frac{8}{9}$
5) 20 10) 80

Page 70 – Challenge 2

- 1) 58 6) 6906
2) 2400 7) 150
3) 90 8) 174
4) 21 090 9) 0.746
5) 30 10) $\frac{1}{8}$

Page 71 – Challenge 3

- 1) 4584 6) 788
2) 866 7) 10.47
3) 166 8) 3705

- 4) 26.32 9) $\frac{8}{1}$ or $\frac{3}{4}$
5) $\frac{1}{18}$ 10) 18

Page 72 – Challenge 4

- 1) 0 6) 4821
2) 40 500 7) 679
3) 500 8) 145
4) 87 423.4 9) 27.105
5) 40 10) $\frac{1}{12}$

Page 73 – Challenge 5

- 1) 0 6) 1043
2) 28 000 7) 33.84
3) 600 8) 96 949
4) 9399.22 9) $\frac{9}{8}$ or $1\frac{1}{8}$
5) 105 10) 54

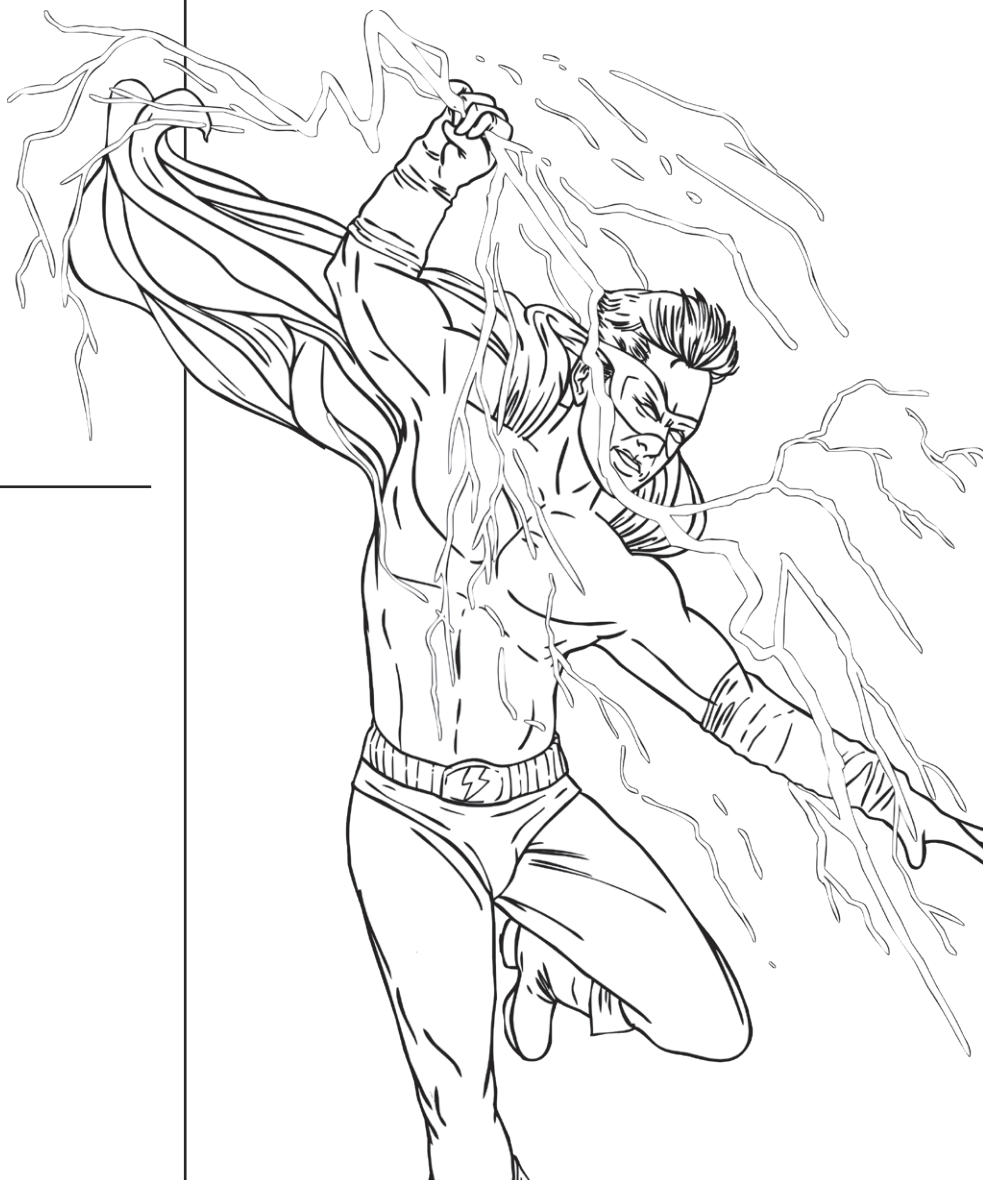
Page 74-87 – Full Test

- 1) 1001 19) 100 000

Section 2 – Mixed Arithmetic Challenges

- | | |
|--------------------------|--|
| 2) 539 | 20) 27 |
| 3) 6.3 | 21) 1870 r 2 or 1870.4 or 1870 and $\frac{2}{5}$ |
| 4) 5932 | 22) 18 400 |
| 5) 96 | 23) 35.68 |
| 6) $\frac{8}{15}$ | 24) 1476 |
| 7) 279 | 25) 142 555 |
| 8) 2.504 | 26) 242 |
| 9) 0 | 27) $\frac{1}{9}$ |
| 10) $\frac{4}{15}$ | 28) $49 \frac{1}{2}$ or 4.5 |
| 11) 81 | 29) 65 946 |
| 12) 6.643 | 30) $\frac{2}{15}$ |
| 13) 482.1 | 31) 30 |
| 14) 3500 | 32) 257 |
| 15) 13 595 | 33) $4 \frac{13}{20}$ |
| 16) $\frac{10}{10}$ or 1 | 34) $\frac{3}{20}$ |
| 17) 15.05 | 35) 361 |
| 18) 720 | 36) $\frac{13}{24}$ |

- | | |
|-------------------------|-----------|
| Answer: 8212 | Letter: A |
| Answer: 64 | Letter: D |
| Answer: 0.42 | Letter: M |
| Answer: 8212 | Letter: A |
| Answer: $2 \frac{1}{4}$ | Letter: T |
| Answer: $\frac{3}{8}$ | Letter: H |
| Answer: 39 | Letter: S |
| Answer: $\frac{3}{8}$ | Letter: H |
| Answer: 110 | Letter: E |
| Answer: 240 | Letter: R |
| Answer: 48.3 | Letter: O |



Page 88-95 – Codebreaker

- | | |
|-------------------------|-----------|
| Answer: 39 | Letter: S |
| Answer: $2 \frac{1}{4}$ | Letter: T |
| Answer: 600 | Letter: U |
| Answer: 64 | Letter: D |
| Answer: 548 | Letter: Y |
| Answer: 39 | Letter: S |
| Answer: 5586 | Letter: Q |
| Answer: 600 | Letter: U |