

# KS2 SATs-style Practice

## Paper 1 — Arithmetic

---

**Time:** 30 minutes

**Marks:** 40

**Questions:** 36

**Calculator:** Not permitted

### Instructions for pupils

- Work through the questions in order — they get harder as you go.
- Write your answer in the box next to each question.
- You may use scrap paper or the space around the question for working.
- Questions 33–36 are worth **two marks each**; all others are worth **one mark**.
- If you get stuck, skip the question and come back to it.

*This practice pack is not affiliated with or endorsed by the Department for Education, the Standards & Testing Agency, or any UK examination board. “SATs-style” means the questions follow the published format and standard; every question is hand-written by MathsTutor.me. Printable and photocopiable for classroom use.*

---

**1**     $34 + 57 = \underline{\hspace{2cm}}$

**1**  
mark

---

**2**     $82 - 46 = \underline{\hspace{2cm}}$

**1**  
mark

---

**3**     $7 \times 8 = \underline{\hspace{2cm}}$

**1**  
mark

---

**4**     $63 \div 9 = \underline{\hspace{2cm}}$

**1**  
mark

---

**5**     $25 + 46 + 18 = \underline{\hspace{2cm}}$

**1**  
mark

---

**6**     $100 - 37 = \underline{\hspace{2cm}}$

**1**  
mark

---

**7**     $9 \times 6 = \underline{\hspace{2cm}}$

**1**  
mark

---

**8**     $72 \div 8 = \underline{\hspace{2cm}}$

**1**  
mark

---

**9**     $345 + 267 = \underline{\hspace{2cm}}$

**1**  
mark

---

**10**     $502 - 178 = \underline{\hspace{2cm}}$

**1**  
mark

---

**11**     $24 \times 6 = \underline{\hspace{2cm}}$

**1**  
mark

---

**12**     $96 \div 4 = \underline{\hspace{2cm}}$

**1**  
mark

---

**13**     $1,234 + 567 = \underline{\hspace{2cm}}$

**1**  
mark

---

**14**     $5,000 - 1,276 = \underline{\hspace{2cm}}$

**1**  
mark

---

**15**     $35 \times 11 = \underline{\hspace{2cm}}$

**1**  
mark

---

**16**     $156 \div 12 = \underline{\hspace{2cm}}$

**1**  
mark

---

**17**  $458 \times 7 = \underline{\hspace{2cm}}$  1  
mark

---

---

**18**  $864 \div 8 = \underline{\hspace{2cm}}$  1  
mark

---

---

**19**  $3.6 + 2.75 = \underline{\hspace{2cm}}$  1  
mark

---

---

**20**  $8.4 - 2.67 = \underline{\hspace{2cm}}$  1  
mark

---

---

**21**  $4.5 \times 3 = \underline{\hspace{2cm}}$  1  
mark

---

---

**22**  $7.2 \div 4 = \underline{\hspace{2cm}}$  1  
mark

---

---

**23**  $0.8 \times 0.5 = \underline{\hspace{2cm}}$  1  
mark

---

---

**24**  $12.6 \div 3 = \underline{\hspace{2cm}}$  1  
mark

---

---

**25**  $\frac{1}{2} + \frac{1}{4} = \underline{\hspace{2cm}}$  1  
mark

---

---

**26**  $\frac{2}{3} - \frac{1}{6} = \underline{\hspace{2cm}}$  1  
mark

---

---

**27**  $\frac{3}{4} \times 8 = \underline{\hspace{2cm}}$  1  
mark

---

---

**28** 25% of 80 =  $\underline{\hspace{2cm}}$  1  
mark

---

---

**29** 50% of 240 =  $\underline{\hspace{2cm}}$  1  
mark

---

---

**30** 10% of 1,500 =  $\underline{\hspace{2cm}}$  1  
mark

---

---

**31**  $(8 + 7) \times 4 = \underline{\hspace{2cm}}$  1  
mark

---

---

**32**  $100 - (20 \times 3) = \underline{\hspace{2cm}}$  1  
mark

---

**Paper 1 — Arithmetic  
(continued)**

Questions 33–36 · 2 marks each · Show your method for full marks

33

$$1,248 \times 37 = \underline{\hspace{2cm}}$$

2  
marks

34

$$9,072 \div 28 = \underline{\hspace{2cm}}$$

2  
marks

35

$$3.78 \times 1.4 = \underline{\hspace{2cm}}$$

2  
marks

36

$$\frac{3}{5} \times \frac{4}{9} = \underline{\hspace{2cm}}$$

2  
marks

## Mark scheme

Accept equivalent forms unless otherwise noted. For 2-mark questions: 2 marks for a correct answer; 1 mark for a correct method with a single arithmetic slip (pupils must show working).

Q	Answer	Notes · accepts	Marks
<b>Questions 1–16 (1 mark each, mental &amp; short written methods)</b>			
1	91	—	1
2	36	—	1
3	56	—	1
4	7	—	1
5	89	—	1
6	63	—	1
7	54	—	1
8	9	—	1
9	612	—	1
10	324	—	1
11	144	—	1
12	24	—	1
13	1,801	Accept 1801	1
14	3,724	Accept 3724	1
15	385	—	1
16	13	—	1
<b>Questions 17–32 (1 mark each, formal written, decimals, fractions, percentages, order of operations)</b>			
17	3,206	Accept 3206	1
18	108	—	1
19	6.35	—	1
20	5.73	—	1
21	13.5	Accept 13.50	1
22	1.8	Accept 1.80	1
23	0.4	Accept 0.40	1
24	4.2	Accept 4.20	1
25	3/4	Accept 0.75 or equivalent fraction	1
26	1/2	Accept 0.5 or any equivalent fraction (e.g. 3/6)	1
27	6	Accept 24/4, 6.0	1
28	20	—	1

Q	Answer	Notes · accepts	Marks
29	120	—	1
30	150	—	1
31	60	—	1
32	40	—	1

**Questions 33–36 (2 marks each, long methods)**

33	46,176	Accept 46176. Award 1 mark for a correct long-multiplication method with one arithmetic slip.	2
34	324	Award 1 mark for a correct long-division method with one arithmetic slip.	2
35	5.292	Accept 5.292 or equivalent. Award 1 mark for method with one slip.	2
36	4/15	Accept 12/45 before cancelling. Award 1 mark for a correct unsimplified product.	2

**Total marks available:** 40 · **Time limit:** 30 minutes · **Calculator:** not permitted.

Every answer in this mark scheme was verified by computer algebra (the SymPy library) before publication. If you spot an error, email [hello@mathstutor.me](mailto:hello@mathstutor.me) — we reply within one working day.

Regenerate this pack from source by running `node build.mjs sats-pack` from the `tools/teacher-pdfs/` directory of the MathsTutor.me repository. See `docs/teachers/README.md` for full regeneration notes.