



**King's College Junior School Style 7 +  
Mental Arithmetic  
Set of Papers 1**

**Time allowed:** 10 minutes per exercise

**Instructions:**

- Calculators are not allowed.

**Full name** \_\_\_\_\_

## Peter – Paper Author & School Entrance Tutor



Peter is a highly experienced preparatory school teacher with over 20 years' expertise in preparing children of all abilities for competitive entrance exams, including the 7+ and 11+ levels. He has helped pupils secure places at leading independent schools such as Brighton College, City of London Freeman's School, Epsom College, Reed's and St George's School. Peter is known for tailoring his teaching to individual learning styles, building both confidence and competence in key areas like literacy, numeracy and reasoning. He combines structured exam technique with supportive, engaging tuition to ensure every pupil reaches their potential.

Find out more about Peter here: <https://owltutors.co.uk/tutor/33843/>

# Mental Arithmetic - Practice Paper 1

## Questions

1. What is 48 divided by 2?
  2. How many faces does a square-based pyramid have?
  3. What is the sum of 25 and 46?
  4. What is half of 60?
  5. Which number is larger: 178 or 187?
  6. What time is 20 minutes earlier than 4 o'clock in the afternoon?
  7. What is double 18?
  8. How many right angles are there in one full turn?
  9. My plant grows 4 centimetres every week. If it is 28 centimetres tall now, how tall will it be in 3 weeks?
  10. Which coins can be used to make £1.68? Use the smallest number of coins possible.
  11. I walk 3 miles in one hour. How far can I walk in two hours?
  12. If X plus 14 equals 20, what is the value of X?
  13. What is the first number to appear in both the 3 and 4 times tables?
  14. How many minutes are there in two hours?
  15. I have 36 litres of juice. I pour 6 litres into each of 4 jugs. How many litres of juice are left?
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## Answers

1. 24
2. 5
3. 71
4. 30
5. 187
6. 20 to 4 or 3:40pm or 15:40
7. 36
8. 4
9. 40 cm
10. 1 × £1, 1 × 50 p, 1 × 10 p, 1 × 5 p, 1 × 2 p, 1 × 1 p
11. 6 miles
12. 6
13. 12
14. 120 minutes
15. 12 litres

# Mental Arithmetic - Practice Paper 2

## Questions

1. What is 70 divided by 7?
  2. How many faces does a cube have?
  3. What is the sum of 34 and 29?
  4. What is one quarter of 48?
  5. Which number is smaller: 305 or 350?
  6. What time is 15 minutes after 9 o'clock in the morning?
  7. What is double 14?
  8. How many right angles are there in one full turn?
  9. A caterpillar grows 3 mm every week. It is 21 mm long now. How long will it be in 4 weeks?
  10. Which coins can be used to make £1.45 using the fewest coins?
  11. I cycle 4 miles in one hour. How far can I cycle in 3 hours?
  12. If  $X + 12 = 19$ , what is X?
  13. What is the first number to appear in both the 4 and 6 times tables?
  14. How many minutes are there in half an hour?
  15. I have 50 apples. I put 8 apples into each box. How many apples are left over?
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## Answers

1. 10
2. 6
3. 63
4. 12
5. 305
6. 9:15 am or 09.15 or quarter past nine
7. 28
8. 4
9. 33 mm
10. £1, 20p, 20p, 5p
11. 12 miles
12. 7
13. 12
14. 30 minutes
15. 2

# Mental Arithmetic - Practice Paper 3

## Questions

1. What is 36 divided by 6?
  2. How many sides does a pentagon have?
  3. What is the sum of 58 and 21?
  4. What is half of 90?
  5. Which number is larger: 402 or 420?
  6. What time is 40 minutes earlier than 6 o'clock?
  7. What is double 35?
  8. How many right angles are there in two full turns?
  9. A puppy gains 2 kg each month. It weighs 10 kg now. What will it weigh in 3 months?
  10. Which coins make £2.06 using the fewest coins?
  11. I read 10 pages in 20 minutes. How many pages can I read in 1 hour?
  12. If  $X - 5 = 11$ , what is X?
  13. What is the first number in both the 5 and 10 times tables?
  14. How many minutes are there in one hour and a half?
  15. I have 24 sweets. I share them equally between 4 children. How many sweets does each child get?
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## Answers

1. 6
2. 5
3. 79
4. 45
5. 420
6. 5:20 or twenty minutes past five
7. 70
8. 8
9. 16 kg
10. £2, 5p, 1p
11. 30 pages
12. 16
13. 10
14. 90 minutes
15. 6

# Mental Arithmetic - Practice Paper 4

## Questions

1. What is 81 divided by 9?
  2. How many corners does a rectangle have?
  3. What is the sum of 47 and 18?
  4. What is three quarters of 20?
  5. Which number is smaller: 689 or 698?
  6. What time is 25 minutes past 7 in the evening?
  7. What is double 42?
  8. How many right angles are there in a square?
  9. A frog jumps 6 metres each jump.  
How far will it jump in 5 jumps?
  10. Which coins make 88p using the fewest coins?
  11. I swim 5 lengths in 10 minutes. How many lengths can I swim in 30 minutes?
  12. If  $X + 9 = 17$ , what is X?
  13. What is the first number in both the 6 and 8 times tables?
  14. How many minutes are there in two and a half hours?
  15. I have 40 balloons. I give away 15. How many balloons do I have left?
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## Answers

1. 9
2. 4
3. 65
4. 15
5. 689
6. 7:25 pm or 19:25
7. 84
8. 4
9. 30 metres
10. 50p, 20p, 10p, 5p, 2p, 1p
11. 15 lengths
12. 8
13. 24
14. 150 minutes
15. 25