Year 6

6 Mental Addition Tests with children's answer sheets

Tests are ideally taken once every 2 weeks

These tests have been designed for use in the Lent term

Year Six   Mental Arithmetic Test 8

(5 seconds response time)

1. Round **28.43** to the nearest **whole number** (28)
2. What is the **square root of 64**? (8)
3. How many grams are equivalent to **2.8kg**? (2800g)
4. What is the sum of the angles within a triangle? (180°)
5. Write the number **nine thousand and nine** in figures. (9,009)

(10 seconds response time)

6. Rulers cost **28p** each. How much would **two rulers** cost? (56p)
7. Which number would you add to **650 to make 1000**? (350)
8. Which number multiplied by itself equals 49? (7)
9. A bag or sweets costs **14p**. How much would **five bags** cost? (70p)
10. A rectangle measures **12cm x 4cm**. What is its area? (48cm^2)
11. What is **half of 7600**? (3800)
12. What is the size of angle A marked on your answer sheet? (132°)
13. How many **11p** sweets can you buy for **£1**? (9)
14. Look at your answer sheet. What temperature is shown on the thermometer? (-4°)
15. What is **35 less than 100**? (65)

(15 seconds response time)

16. Look at the numbers in the box on your answer sheet. Which number is a **multiple of 7**? (63)
17. In a money box there are **thirteen fifty pence pieces**. Write down the total amount in the money box (£6.50)
18. Put a ring around the largest quantity on your answer sheet (800ml)
19. Look at the timetable on your answer sheet. A train leaves Manchester at **11:15** and arrives in Eccles at **11:28**. How long did the journey take? (13 mins)
20. Multiply **40 by 80** (3200)

Year Six   Mental Arithmetic Test 9

(5 seconds response time)

1. What is **half of 90**? (45)
2. What is **37 more than 60**? (97)
3. Look at the rectangle on your answer sheet. Put a ring around the fraction of the rectangle which is **shaded**. ($^2/_3$)
4. Write the number **nineteen thousand and fifty eight** in figures (19,058)
5. What is **half of 8.2**? (4.1)

(10 seconds response time)

6. A melon costs **99p** and an orange costs **18p**. How much **more** does the melon cost than the orange? (81p)
7. Two numbers have a difference of twenty. One of the numbers is 36. What could the other number be? (16 or 56)
8. What is **10% of £1.50**? (15p)
9. How many **days** are there in **8 weeks**? (56 days)
10. What is the **product of 8 and 12**? (96)
11. What is the **perimeter** of a rectangle which measures **16cm long** and **4cm wide**? (40cm)
12. Put a ring around the nearest length **to two and a half metres** (247cm)
13. Apples cost **16p.** How much would **four** cost? (64p)
14. On your answer sheet is a scale. What is the number shown by the arrow? (9.33)
15. What is **40 multiplied by 50**? (2000)

(15 seconds response time)

16. A school has **exactly twice** as many boys as girls. There are **124 girls**. How many boys are there? (248)
17. A train travels at **110 miles per hour**. How far will it travel in **three hours**? (330 miles)
18. Put a ring around the **smallest** of the five numbers on your answer sheet. (7.8)
19. A television programme starts at **11:20** and ends at **11:4**5. How long was the programme? (25 mins)
20. Which number would I add to **730 to make 1000**? (270)

Year Six   Mental Arithmetic Test 10

(5 seconds response time)

1. What is **double 23**? (46)
2. What is **40 more than 53**? (93)
3. What is **half of 2.4**? (1.2)
4. Write the number **ten thousand and thirty three** in figures (10,033)
5. What is the size of each angle in an **equilateral** triangle? (60°)

(10 seconds response time)

6. **Three fifty pence coins** have a mass of **18 grams**. What is the mass of **one** fifty pence coin? (6g)
7. Footballs cost **£1.45** each. How much would **two** footballs cost? (£2.90)
8. **Four** tracksuits cost **£200**. What does **one** tracksuit cost? (£50)
9. What is **6400 grams** to the **nearest kilogram**? (6kg)
10. How many **metres** are there in **6 ½ kilometres**? (6,500)
11. How many **minutes** are there in **one and a quarter hours**? (75 mins)
12. Look at your answer sheet. Put a ring around the length nearest to **one metre.** (101cm)
13. What is **one quarter of £30**? (£7.50)
14. On your answer sheet is a scale. What number is shown by the arrow? (-12.0)
15. What is **10% of £8**? (80p)

(15 seconds response time)

16. What is the **mean** of **1, 2, 3 and 4**? (2.5)
17. Alex paid for a book with a **£20 note** and received **£7.50** change. How much did he pay for the book? (£12.50)
18. Put a ring around the only **multiple of three** on your answer sheet. (87)
19. A television programme starts at **11:05** and ends at **12:15**. How long did the programme last? (1h 10m or 70m)
20. What is the **product of 20 and 80**? (1600)

Year Six   Mental Arithmetic Test 11

(5 seconds response time)

1. What is **245 multiplied by 10**? (2450)
2. What is the **sum of 60 and 65**? (125)
3. Write the number **eleven thousand and eleven** in figures (11,011)
4. What is **half of 144**? (72)
5. Look at the isosceles triangle on your answer sheet. What is the size of angle A? (50°)

(10 seconds response time)

6. One apple has a mass of **150 grams**. What is the mass of **three** apples? (450g)
7. John has **16 pence**. Jill gives John another **nineteen pence**. How much does John have altogether? (35p)
8. Two numbers have a **sum of 100**. One of the numbers is 67. What is the other number? (33)
9. Abdul is **17cm taller** than his brother Raj. Raj is **130cm** tall. How tall is Abdul? (147cm)
10. Look at the equation on your answer sheet. What is the value of n? (34)
11. Look at the rectangle on your answer sheet. What is its perimeter? (11cm)
12. What is **8450ml** to the **nearest litre**? (8 litres)
13. Alex bought a pencil for **73p**. How much change did he receive from a **pound**? (27p)
14. On your answer sheet is a scale. What is the number shown? (20)
15. What is **double 3.6**? (7.2)

(15 seconds response time)

16. Look at the numbers in the box on your answer sheet. Which of these numbers is a **multiple of 4** and a **multiple of seven**? (56)
17. What is a **25% of £10**? (£2.50)
18. Put a ring around the **largest** of the six numbers on your answer sheet. (2020)
19. Look at the diagram on your answer sheet. What is the area of triangle B? (9cm^{2})
20. A box holds **20 pencils**. How many pencils would be in **80 boxes**? (1600)

<u>Year Six   Mental Arithmetic Test 12</u>

<u>(5 seconds response time)</u>

1. What is **double 24**? (48)
2. What is **40 add 26**? (66)
3. A piece of wood is **3.6 metres** long. The wood is cut in **half**. How long is one half of the wood? (1.8m)
4. Write the number **sixteen thousand, five hundred and seven** in figures (16,507)
5. How many sides does an **octagon** have? (8)

<u>(10 seconds response time)</u>

6. One pencil weighs **15g.** What do **3** pencils weigh? (45g)
7. Footballs cost **£2.35** each. How much would **two** footballs cost? (£4.70)
8. **Five** tracksuits cost **£300**. What does **one** tracksuit cost? (£60)
9. What is **290cm** to the **nearest metre**? (3m)
10. How many **minutes** are there in **three and a half** hours? (210 mins)
11. A rectangle is **10cm** long and **6cm** wide. What is its perimeter? (32cm)
12. Look at your answer sheet. Put a ring around the appropriate height of a door. (2m)
13. What is **¾ of £12**? (£9)
14. On your answer sheet is a scale. What number is shown by the arrow? (3.44)
15. What is **25% of £12**? (£3)

<u>(15 seconds response time)</u>

16. What is the **mean** of **6, 5, 2 and 3**? (4)
17. Alex paid for a tape with a **£5** note and received **£1.25** change. How much was the tape? (£3.75)
18. Look at your answer sheet. Put a ring around the **largest** number. (6.7)
19. A train leaves Manchester at **10:41** and arrives at Eccles at **10:56**. How long did the train journey take? (15 mins)
20. Multiply **30 by 70** (2100)

Year Six   Mental Arithmetic Test 13

(5 seconds response time)

1. What is **236 multiplied by 10**? (2360)
2. What is the **sum of 50 and 78**? (128)
3. Write the number **thirty one thousand and thirteen** in figures (31,013)
4. What is **half of 3.6**? (1.8)
5. Look at the drawing on you answer sheet. What is the size of angle A? (45°)

(10 seconds response time)

6. **Three pencils** have a total mass of **21 grams**. What is the mass of **one pencil**? (7g)
7. Footballs cost **£1.65**. How much would **two** footballs cost? (£3.30)
8. Bob hats cost **£2.49** each. How many bob hats could you buy for **£10**? (4)
9. Abdul is **15cm** taller than his brother Raj. Raj is **125cm** tall. How tall is Abdul? (140cm)
10. Look at the equation on your answer sheet. What is the value of n? (46)
11. A rectangle is **9cm** long and **7cm** wide. What is its **perimeter**? (32cm)
12. What is **7350ml** to the **nearest litre**? (7 litres)
13. What is **¾ of £24**? (£18)
14. On you answer sheet is a scale. What is the number shown by the arrow? (12.48)
15. What is **10% of £2.50**? (25p)

(15 seconds response time)

16. Look at the numbers in the box on your answer sheet. Which of these numbers is **not** a **multiple of 7**? (64)
17. Alex bought a tape with a **£10** note and received **£1.15** change. How much was the tape? (£8.85)
18. Put a ring around the **smallest** of the six numbers on your answer sheet (1.67)
19. A train leaves Manchester at **10:55** and arrives in Eccles at **11:13**. How long did the journey take? (18 mins)
20. A box holds **25 pencils**. How many pencils would be in **12 boxes**? (300)

<u>Year Six   Mental Arithmetic Test 14</u>

(5 seconds response time)

1. What is **double 32**? (64)
2. What is the sum of **70 and 77**? (147)
3. Write the number **sixteen thousand and six** in figures (16,006)
4. What is **half of 3.8?** (1.9)
5. Look at the drawing of an isosceles triangle on your answer sheet. What is the size of angle A? (80°)

(10 seconds response time)

6. One pencil has a mass of **16 grams**. What is the mass of three pencils? (48g)
7. A container holds **700ml** of water. If **half** of the water is poured away, how much is left in the container? (350ml)
8. Bob hats cost **£1.49** each. How many bob hats could you buy **for £5**? (3)
9. Abdul is **9cm** taller than his brother Raj. Raj is **136cm** tall. How tall is Abdul? (145cm)
10. Look at the equation on your answer sheet. What is the value of n? (32)
11. A rectangular room is **9 metres** long and **6 metres** wide. What is the area of the floor? ($54m^2$)
12. How many **hours** are there in **three days**? (72 hours)
13. What is $^2/_3$ **of £12**? (£8)
14. On your answer sheet is a scale. What is the number shown by the arrow? (13.75)
15. What is **double 3.7**? (7.4)

(15 seconds response time)

16. Look at the numbers in the box on your answer sheet. Which of these numbers is **not a prime number**? (22)
17. Alex paid for a tape with a **£10** note and received **£2.35** change. How much was the tape? (£7.65)
18. Look at your answer sheet. Put a ring around the **nearest number to 6**. (5.98)
19. A train leaves Manchester at **09:45** and arrives in Liverpool at **10:31**. How long did the journey take? (46 mins)
20. A box holds **25 pencils**. How many pencils would be in **16 boxes**? (400)

YEAR 6   Mental Arithmetic Test 8

Name	Date

1.

2.

3.   g   2.8kg

4.   0

5.

6.   p

7.   650   1000

8.

9.   p   14p   5

10.   cm^2 12cm   4cm

11.   7600

12.   o

48º   a

13.   11p   £1

14.

- 8ºC   2ºC
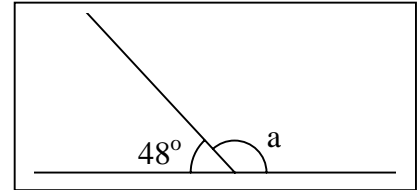
15.   35   100

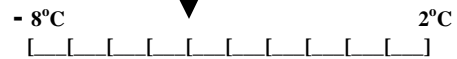**16.**   15   27   72   63   36

17.   £   13   50p

18. $\frac{1}{2}l$ 50 *ml*   450*ml*   800*ml*

19.   minutes   Depart 11:15   Arrive 11:28

20.   40   80

YEAR 6   Mental Arithmetic Test 9

Name	Date

1.

2. | **37** **60**

3. $\frac{2}{3}$ $\frac{1}{4}$ $\frac{2}{10}$ $\frac{1}{2}$ ■□

4.

5.

6. **p** | **99p** **18p**

7. | **20** **36**

8. **p** | **10%** **£1.50**

9. **days**

10. | **8** **12**

11. | **16cm** **4cm**

12. **200cm** **300cm** **247cm** **256cm** **25mm**

13. **p** | **16p** **4**

14. 9 . 3   9 . 4
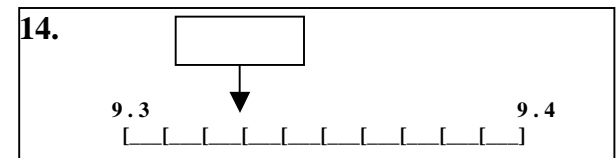
15. | **40** **50**

16. **boys** | **124 girls**

17. **miles** | **110** **3**

18. **7.8** **19.2** **7.93** **12.6** **15.83**

19. **minutes** | **Starts 11:20** **Ends 11:45**

20. | **730** **1000**

YEAR 6   Mental Arithmetic Test 10

Name		Date	

1.

2. | 40   53

3.

4.

5.   o

6.   g | 3   18g

7.   £1.45

8. £ | 4   £200

9.   kg | 6400g

10.   m | $6\frac{1}{2}$ km

11. minutes | $1\frac{1}{4}$ hours

12.
98cm   12cm   950cm
750cm   101cm

13. £ | £30 $\frac{1}{4}$

14.
-18.0   2.0
[__[__[__[__[__[__[__[__[__[__[__]
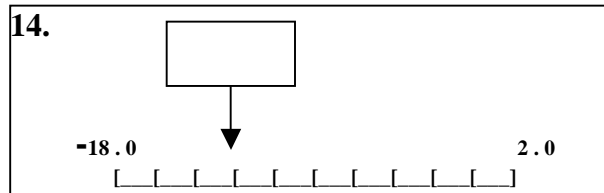
15. | 10%   £8

16. | 1   2   3   4

17. £ | £20   £7.50

18.
92   118   130
87   100

19. minutes | Starts   11:05   Ends   12:15

20. | 20   80

YEAR 6   Mental Arithmetic Test 11

Name	Date

1.

2.   60   65

3.

4.

5.   o

80°

A   50°
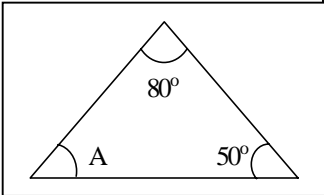
6.   g   150g

7.   p   16p   19p

8.   67   100

9.   cm   17cm   30cm
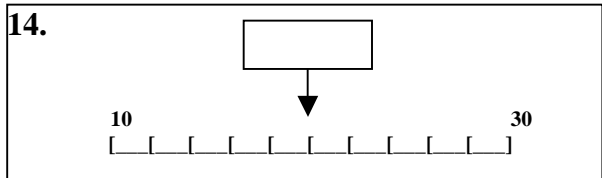
10.   24 = n - 10

11.   cm

4cm
1.5cm

12.   *l*   8450 ml

13.   p   73p   £1

14.

10   30
[__[__[__[__[__[__[__[__[__[__[__]

15.   3.6

16.

63   100

56   14

17.   £   25%   £10

18.

2001   1002   2010
        1012   2020

19.   cm²

9cm

B   2cm
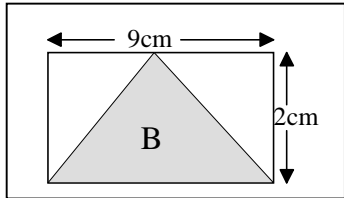
20.   20   80

YEAR 6   Mental Arithmetic Test 12

Name	Date

1.

2. | 40   26

3. | 3.6m

4.

5.

6. g | 15g   3

7. £ | £2.35

8. £ | £300   5

9. m

10. minutes

11. cm | 6cm
10cm

12. 16cm   2m   26mm
20cm   20m

13. £

14.
3.4   3.5
⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌊⌋
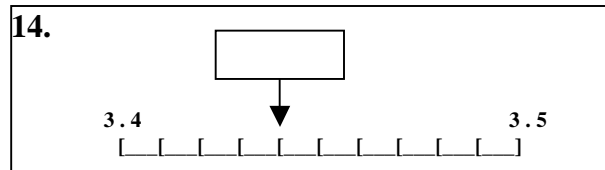
15. £ | £12   25%

16. | 6   5
2   3

17. £ | £5   £1.25

18. 6.7   1.92   6.07
1.67   6.17

19. minutes | Depart 10:41
Arrive 10:56

20. | 30   70

YEAR 6   Mental Arithmetic Test 13
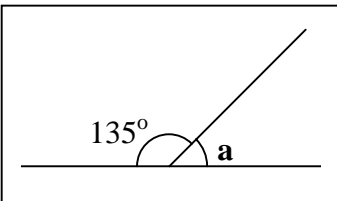
Name   **Date**

1.

2.   50   78

3.

4.   3.6

5.   0

135° a

6.
g   3   21g

7.   £1.65
£

8.   £2.49   £10

9.
cm

10.   36 = n - 10

11.   cm   7cm
                               9cm

12.   /

13.   £   ¾   £24

14.

12 . 4   12 . 5

15.   £2.50   10%

16.   21   56
                 64   77

17.   £10   £1.15
£

18.
6.7   1.92   6.07
    1.67   6.17

19.   minutes   Depart 10:55
                              Arrive   11:13

20.   25 pencils
                 12 boxes
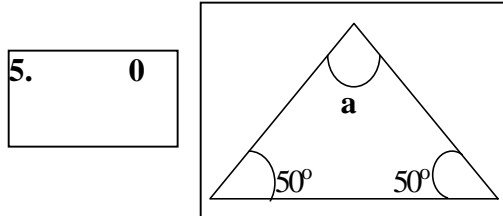
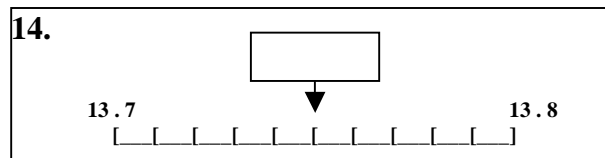# YEAR 6   Mental Arithmetic Test 14

Name

Date

1.

2.   70   77

3.

4.   3.8

5.   0

a
50°   50°

6. g

7. 700ml
ml

8. £1.49   £5

9. cm   9cm   136cm

10. $22 = n - 10$

11. m^2 6m   9m

12. hours

13. £ $\frac{2}{3}$ £12

14.
13 . 7   13 . 8

15. 3.7

16.   5   7   13   22

17. £   £10   £2.35

18.
6.7   5.98   6.07
1.67   6.17   1.76

19. minutes   Depart 09:45   Arrive 10:31

20.   25 pencils   16 boxes