

Level 3

Mental Maths

Set 1

1. Find the product of 7 and 8
2. Write $\frac{1}{2}$ as a decimal
3. $1.7 + 0.5$
4. Find the multiple of 8 that is between 20 and 30.
5. What is $\sqrt{36}$
6. What is the size of the angle between the hands of a clock at 3pm?
7. 35 subtract 16
8. Given $m = 7$. Find $3m-1$
9. Find 30% of 80
10. -8 add 14

Set 2

1. What must I add to 137 to make 200?
2. 15 times 40
3. 12 minus 20
4. Find 5% of £120
5. 4^3
6. $\frac{1}{2} + \frac{1}{4}$
7. $4.7 - 1.2$
8. A film starts at 9:30pm and finishes 11:05pm. How long?
9. A car travels at 50mph for 3 hours. How far does it go?
10. Find 25% of £60.

Set 3

1. 5.8 plus 1.2
2. 40 times 8

3. How many minutes in 30 hours?
4. 65 subtract 42
5. 3.2 multiplied by 100
6. Express $\frac{1}{5}$ as a %
7. A circular cake is cut into 10 equal slices. Find the angle at the centre of each slice.
8. What is double of 350?
9. $600 \div 30$
10. Find 15% of 40

Set 4

1. $78 - 29$
2. $3.8 + 1.3$
3. Find 1% of £65
4. 2^3
5. 40×60
6. $\frac{3}{4} + \frac{1}{2}$ (as a mixed number)
7. A café opens from 9:30am till 6:00pm. How long is it open?
8. In Glasgow the temp is 5°C. That is 9deg warmer than it is in Moscow. What's the temp in Moscow?
9. An equilateral triangle has sides of 2.5cm. Find its perimeter.
10. 0.45×1000

Set 5

1. $79 + 21$
2. 30% of 40
3. 35×20
4. What must be added to 0.43 to make 0.5?
5. A film starts at 8:30 and finishes at 10:05. How long is the film?
6. $1\frac{1}{2} - \frac{1}{4}$
7. $-5 + 11$

8. Find the diameter of a circle with radius 2.6cm

9. Find 2% of £300

10. Express $\frac{3}{2}$ as a mixed number.

Set 6

1. Express $\frac{1}{4}$ as a %

2. $120 - 50$

3. -5×-9

4. Find the cost of 6 bottles of juice that cost £1.20 each

5. A restaurant bill is £43.80 (including a tip). How much change from £50?

6. What is the angle between the hands of a clock at 1pm

7. Express 40% as a fraction in its simplest form.

8. Our school day is from 8:45am till 3:30pm. How long is that?

9. A litre of petrol goes up from £1.19 to £1.31. What is the increase?

10. If $a = 2$ and $b = 3$, find $5a - b$.

Set 7

1. $58 - 49$

2. $630 \div 9$

3. Find 90% of £40

4. A car travels at 30miles/hour for 2 hours. Find the distance.

5. A sale offers 10% off all items. How much will a shirt originally costing £30 be in the sale?

6. Write down all the factors of 12.

7. 5×-7

8. $-36 \div -4$

9. How long is it after lunch (1:00pm) till home time (2:40pm) on our short school day?

Answer in minutes

10. $1 - \frac{2}{3}$

Set 8

1. Write down all the factors of 16.
2. $24 + 37$
3. Find the perimeter of a square with side 3.5cm
4. Find 15% of 60
5. 8×30
6. $5 - (-2)$
7. $102 - 21$
8. Find the angle between the hands of a clock at 2:00pm
9. Find $\frac{3}{4} + \frac{3}{4}$, giving answer in its simplest form.
10. One day 5 pupils were off from a class of 20. Express this as a %.

Set 9

1. $1 + 2 \times 3$
2. $63 - 9$
3. At night the temp was -3°C . By noon it had risen by 12° . Find temp at noon.
4. It costs £1.50 per person for swimming. How much is it for 4 people to go swimming.
5. $1.8 + 0.7$
6. A triangle has angles 30° and 40° . Find the size of the third angle.
7. Another triangle has angles 60° and 30° . What **type** of triangle is it?
8. Change 4.5kg to g
9. Simplify $\frac{8}{12}$
10. Change 40% to a simplified fraction.

Set 10

1. Find $\frac{3}{5}$ of £40
2. $56 \div 100$
3. Write twelve thousand and 45 in figures.

4. Change 56mm to cm
5. 14 multiplied by 5
6. Change $\frac{1}{5}$ to a %
7. Find 3% of £600
8. Find the mean value of the numbers 5, 6 and 10
9. I'm thinking of a number. I multiply by 4 and add 2. My answer is 30. What is the number?
10. Add 5.6 and 2.5

Set 11

1. 9×8
2. Express $\frac{1}{5}$ as a decimal
3. $2.7 + 0.9$
4. Write down the only 2 prime numbers between 20 and 30.
5. What is $\sqrt{81}$
6. What is the size of the angle between the hands of a clock at 9pm?
7. $94 - 27$
8. Given $x = 3$. Find $2x + 4$
9. Find 70% of 40
10. $-8 - 5$

Set 12

1. What must I add to 532 to make 600?
2. Find the product of 40 and 60
3. $-12 + 20$
4. Find 3% Of £400
5. 2^3
6. $\frac{1}{2} - \frac{1}{4}$
7. $4.2 - 1.3$
8. A show starts at 8:30pm and finishes 10:50pm. How long does it last?
9. A car travels at 60km/h for $1\frac{1}{2}$ hours. How far does it go?
10. Find $\frac{3}{4}$ of 36.

Set 13

1. Find the sum of 0.49 and 0.16
2. How many seconds in 20 minutes?
3. $3 \times 4 \times 5$
4. Find the difference between 47 and 79
5. 5.6 multiplied by 1000
6. Express $\frac{2}{5}$ as a %
7. A circular cake is cut into 6 equal slices. Find the angle at the centre of each slice.
8. 1.3 times 4
9. $400 \div 80$
10. Find 90% of 80

Set 14

1. Jim is 42 and his nephew John is 19. How much older is Jim?
2. 14.8 add 1.5
3. Find 12% of £800
4. $3^2 - 2^3$
5. What is double 650?
6. $1 - \frac{3}{8}$
7. A museum opens from 9:30am till 5:20pm. How long is it open?
8. In London the temp is 15°C. That is 16deg warmer than the temp in Glasgow. What's the temp in Glasgow?
9. A square has sides of 8.5cm. Find its perimeter.
10. $650 \div 1000$

Set 15

1. Find the sum of 89 and 63
2. 70% of 120
3. 15 multiplied by 9
4. $5.1 - 4.7$
5. A bus departs at 09:30 and arrives at its destination at 1300. How long is the journey?
6. $2\frac{1}{2} - 1\frac{1}{4}$
7. $-5 - (-1)$
8. Find the diameter of a circle with radius of 3.6cm
9. Find 12% of £300
10. Find $\frac{5}{6}$ of 24

Set 16

1. Express $\frac{3}{5}$ as a %
2. $150 - 80$
3. $56 \div -7$
4. Find the cost of 5 can of juice that cost £0.65 each
5. A plumbing bill is £154.20 How much change from £160?
6. A triangle has angles 45° and 55° . What size is the third angle?
7. Express 5% as a fraction in its simplest form.
8. Our short school day lasts from 8:45am till 2:40pm. How long is that?
9. A shop increases its prices by 10%. Find the new price of an item initially costing £45
10. If $a = 4$ and $b = 5$, find the value of $a^2 + b^2$.

Set 17

1. What must be added to 6.73 to make 7
2. $450 \div 90$
3. Find 15% of £160

4. A car travels at an average speed of 60 miles/hour for $1\frac{1}{2}$ hours. How far will it travel?
5. A sale offers 25% off all items. How much will shoes originally priced at £60 cost in the sale?
6. Write down all the factors of 20.
7. -5×-30
8. $-2 + (-7)$
9. How many minutes in $3\frac{1}{2}$ hours?
10. $3\frac{1}{3} - \frac{2}{3}$

Set 18

1. Write down all the factors of 30.
2. 99 add 99
3. Find the area of a square with side 12cm
4. Find 8% of 600
5. 80 times 40
6. $-5 - 2$
7. Find half of 99
8. Find the angle between the hands of a clock at 1:00pm
9. $\frac{1}{4} + \frac{1}{4}$
10. 5 players out of 15 were injured in a tough rugby match. Express this as a %.

Set 19

1. $2 + 3 \times 4$
2. $89 - 19$
3. At noon the temp was 13°C . By midnight it had dropped by 18° . Find temp at midnight.
4. It costs £1.80 per child for a bouncy castle. How much is it for 5 children?
5. 1.9 plus 0.2
6. A triangle has angles 50° and 40° . Find the size of the third angle.
7. Another triangle has angles 50° and 80° . What **type** of triangle is it?

8. Change 2.1kg to g
9. Simplify $\frac{2}{12}$
10. Change 60% to a simplified fraction.

Set 20

1. Find $\frac{2}{3}$ of £15
2. $26 \div 100$
3. Write 4 thousand and 3 in figures.
4. Change 800mm to cm
5. Find the product of 13 and 7
6. Change $\frac{2}{5}$ to a %
7. Find 7% of £400
8. Find the mean value of the numbers 3, 4 and 8
9. I'm thinking of a number. I multiply by 2 and add 1. My answer is 19. What is the number?
10. Add 1.6 and 1.5

Set 21

1. What is double 450?
2. Write $\frac{1}{5}$ as a decimal
3. $1.8 + 0.3$
4. Find the multiple of 8 that lies between 30 and 40.
5. What is $\sqrt{64}$
6. What is the size of the angle between the hands of a clock at 6pm?
7. $41-43$
8. Given $m = 7$. Find $3m-1$
9. Find 20% of 40
10. $-6+20$

Set 22

1. $98 + 29$
2. 15×50
3. What must I add to 913 to make 1000?
4. Find 5% of 140
5. 2^3
6. $\frac{2}{5}$ of 45
7. $1.7 - 0.8$
8. A bus departs at 6:30am and arrives at noon. How long?
9. A bike travels at 15mph for 4 hours. How far does it go?
10. Find 75% of £80.

Set 23

1. $2.8 + 8.2$
2. How many weeks in a) 1 year b) 20 years?
3. Add 1,2,3,4 and 5
4. $61 - 12$
5. 4.2×1000
6. Express $\frac{3}{4}$ as a %
7. A circular cake is cut into 3 equal slices. Find the angle at the centre of each slice.
8. $13 \times 5 \times 2$
9. $200 \div 40$
10. Find 5% of 90

Set 24

1. $71 - 15$
2. What must be added to 0.43 to make 0.6?
3. Find 1% of £3

4. 7^2
5. 20×50
6. $\frac{2}{7}$ of 21
7. A school opens from 0830 till 1500hours. How long is it open?
8. In Glasgow the temp is -3°C . That is 15deg cooler than the temperature in Madrid. What's the temp in Madrid?
9. An equilateral triangle has perimeter of 12cm. Find the length of each side.
10. 0.05×10

Set 25

1. $19 + 29$
2. 20% of 240
3. 85×2
4. $0.1 - 0.01$
5. A ferry leaves port at 0900hrs and arrives at its destination 5hours later. Write down arrival time in 24 hour clock notation.
6. $1\frac{1}{4} - \frac{3}{4}$
7. $-7 - (-1)$
8. Find the diameter of a circle with radius 0.7cm
9. Find 9% of £500
10. Express $\frac{5}{4}$ as a mixed number.

Set 26

1. Express $\frac{4}{5}$ as a %
2. $160 - 90$
3. -5×-4
4. Find the cost of 5 cartons of juice that cost £1.05each
5. A supermarket offers 3 for price of 2 tins. If a single tin costs 75p, how much does each tin effectively cost if 3 are bought??
6. What is the angle between the hands of a clock at noon.
7. Express 60% as a fraction in it's simplest form.

8. Swimming is open from 8:30am till 2:00pm. How long is that?
9. The cost of milk goes up from £1.27 to £1.50. What is the increase?
10. If $a = 2$ and $b = 3$, find $5ab$

Set 27

1. $20 - 30$
2. $630 \div 9$
3. Find 70% of £60
4. A runner runs at 8miles/hour half an hour. Find the distance.
5. A sale offers $\frac{1}{5}$ off all items. How much will a dress originally costing £120 be in the sale?
6. Write down all the factors of 15.
7. 6×-9
8. Find the angle between the hands of a clock at 1:00pm
9. 20 years ago the 100m WR was 9.85secs (Leroy Burrell)
In 2014 it stands at 9.58secs (Usain Bolt 2009). Find the time difference.
10. In 1954 Roger Bannister became the first man to run a mile in under 4 minutes (3:59.4). At 1 mile in 4 minutes, what distance would be covered in 1 hour? (Hence speed mph)

Set 28

1. Write down all the factors of 12.
2. $39 + 87$
3. Find the perimeter of a square with side 6.5cm
4. Find 3% of 200
5. 8×90
6. $-7 - (-6)$
7. $122 - 35$
8. Find the reflex angle between the hands of a clock at 9:00pm
9. Find $\frac{4}{9}$ of 45.
10. In a survey 3 out of every 5 people were in favour of banning smoking. Express this as a percentage.

Set 29

1. $5 \times 4 \times 3 \times 2 \times 1$
2. $66 - 19$
3. At night the temp was -9°C . By noon it had risen by 5° . Find temp at noon.
4. It costs £1.25 for a bus ticket. How much for 4 tickets?
5. $0.19 + 0.9$
6. A triangle has 2 angles of 30° . Find the size of the third angle.
7. A right angled triangle has an angle of 50° . What size is the third angle?
8. Change 2400g to kg
9. Simplify $\frac{9}{12}$
10. Change 5% to a simplified fraction.

Set 30

1. Find $\frac{3}{8}$ of £56
2. $3.4 \div 100$
3. Write 85 thousand and 12 in figures.
4. Change 1.6m to cm
5. 18×4
6. Change $\frac{3}{10}$ to a %
7. Find 9% of £400
8. Find the mean value of the numbers 12 and 13
9. I'm thinking of a number. I multiply by 3 and take 2. My answer is 25. What is the number?
10. $5 \times 4 \times 3 \times 8 \times 0 \times 13$