JTL Practice Assessment

Congratulations on being invited to the JTL assessment.

On the day, the JTL assessment will last for 65 minutes. With the time necessary for administration you should expect to be finished in about 95 minutes.

The assessment itself is designed to look at 3 very important skill areas. These are:
- a. Literacy skills;
- b. Numeracy skills;
- c. Applied science and enhanced mathematical aptitude.

They are very important because Advanced Apprenticeships offered by JTL require the intensive use of many skills and aptitudes specific to our industry. The JTL assessment gives us a good indication of your ability to complete an advanced apprenticeship.

To help you prepare for the JTL assessment, we have provided some practice questions on the following pages for you to try.

Answer all the questions at your own pace, then turn to pages 18 and 19 at the back of this booklet and check your answers are correct.

These practice questions are in the style of the real assessment but are not the same. Do not worry about trying to remember these questions; they will not be part of the assessment.

When you turn up for the JTL assessment, please remember to bring:

- 2 HB pencils;
- A pen;
- An eraser;
- A pencil sharpener;
- Details of your National Insurance number if you have one.

IMPORTANT

You should have already sent us evidence of “absence of colour vision deficiency” (i.e. a passed colour blindness test). If you have not, then you must bring a copy to the JTL Assessment and hand it to the invigilator. Any Optician will be able to conduct this test and provide you with the results. Without this, your application cannot be progressed further. The test results must clearly state your name and that you do not suffer from colour blindness. We will accept originals on the day but these cannot be returned.
Instructions for this practice assessment

There are 3 sections in this booklet:
1. Literacy (24 questions);
2. Numeracy (15 questions);
3. Aptitude (19 Questions).

The ways to answer the questions are quite simple.

For the literacy and numeracy sections:
Wherever you see an empty answer box, using a pencil, neatly write your answer in it. If you see an answer box with 4 optional answers, do not write anything; carefully circle the correct answer using a pencil.

For the aptitude section:
This section is different. Each question has 4 multiple choice answers. Select the correct answer to each question and neatly shade in the appropriate circle, using a pencil, on the answer sheet (page 15).

For example, if the answer to a question is C, then you would mark the answer as:

a〇 b〇 c〇 d〇
Circle the correct word in the box to answer questions 1-5.

1. I am ________ to London Zoo next week. I hope the weather is good.
   - going
   - gone
   - travelled
   - been

2. I am going to ________ during the summer holidays.
   - rain
   - sultana
   - Spain
   - car

3. When I go to school tomorrow I must give my homework to the ________.
   - mister
   - person
   - teacher
   - me

4. That person who ________ in front of the car must be mad!
   - run
   - ran
   - ditch
   - saw

5. The ________ was very tasty. I might have that again next week.
   - lunch
   - launch
   - data
   - dine

Write the correct spelling for the underlined word in the box to answer questions 6-10.

6. I ________ off the wall on to the grass.
   - jump

7. When she dropped the cup I thought it was going to ________.
   - brake

8. The ________ with some dogs is that they bark too loud.
   - trouble

9. The milk went everywhere, they had to clean the ________ floor.
   - knew

10. In summer you can see all the ________ flowers.
    - butiful
### One word in each sentence is spelled incorrectly. Write the correct spelling in the box to answer questions 11-15.

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<thead>
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<tbody>
<tr>
<td><strong>11</strong></td>
<td>The train timetable was really useful.</td>
<td></td>
<td></td>
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<tr>
<td><strong>12</strong></td>
<td>The neighbours are very quiet. We can’t even hear their television.</td>
<td></td>
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<tr>
<td><strong>13</strong></td>
<td>Jane poored the wine into the glass.</td>
<td></td>
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<tr>
<td><strong>14</strong></td>
<td>At the roundabout, go straight over and then turn left.</td>
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<tr>
<td><strong>15</strong></td>
<td>I brought that balloon from the shop in the high street. It cost 30p.</td>
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</tbody>
</table>

### Circle the correct spelling of the word in the box to answer questions 16-20

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<tbody>
<tr>
<td><strong>16</strong></td>
<td>That cheese and ________ sandwich looks really tasty.</td>
<td>onion</td>
<td>onyon</td>
<td>oneon</td>
</tr>
<tr>
<td><strong>17</strong></td>
<td>The ________ of the Opera was a great musical.</td>
<td>fantom</td>
<td>phantom</td>
<td>fantum</td>
</tr>
<tr>
<td><strong>18</strong></td>
<td>My ________ came to my birthday party.</td>
<td>frend</td>
<td>phrend</td>
<td>friend</td>
</tr>
<tr>
<td><strong>19</strong></td>
<td>There are only ________ more days left until we go on our holiday.</td>
<td>forty</td>
<td>fourty</td>
<td>fourtie</td>
</tr>
<tr>
<td><strong>20</strong></td>
<td>The salad was perfect when I added the ________ .</td>
<td>salary</td>
<td>selery</td>
<td>selerie</td>
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</table>
Dear Louise,

Peter said you were very upset because of the problem with your washing machine. He thought the problem might be the pump.

I think the problem is actually the switch. The only way to be sure is to get a professional plumber, like the ones I always use, to have a look at it. I will contact this company and ask them to ring you to make an appointment to come round to your house.

Please don’t get too upset, I am sure they will be able to fix the machine quite quickly but it might take some time to order the spare parts.

Whatever you do, don’t let Peter take the washing machine apart. It would be very dangerous and he could hurt himself and the machine. Only use a qualified plumber.

Best wishes.

John

21 John has written this letter to warn Louise that Peter should not attempt to repair the washing machine himself because it would be ________.

- hazardous
- quicker
- pointless
- cheaper
- quicker
- pointless

22 John always uses a company of _________ plumbers.

- unqualified
- cheap
- professional
- troublesome

23 The problem with the washing machine has made Louise ________.

- happy
- awkward
- distressed
- lively

24 Peter thinks the problem with the washing machine may be the ________.

- pump
- motor
- switch
- plug
NUMERACY

Circle the correct answer in the box or write the correct answer in the empty box, as appropriate, to answer the following questions.

25. 12 + ____ = 0
   -1 12 0 -12

26. 13 – 6 = 1 + ____
   7 5 8 6

27. 1/4 = ?
   /20

28. Peter gets £8.00 a week pocket money. He shared this equally between himself and his 3 brothers. How much did each brother get £?
   £

29. Which of these numbers shows twenty three thousand seven hundred and eighty two?
   237,082 23,782 2,300,782 23,728

30. Which is the smallest number _____
   0.05 0.055 0.5 0.50

31. The perimeter of this floor is?
   m

32. What is the area of this floor?
   m²

33. 32 + 16 – 7 = ____
   43 23 41 24

34. Round this number to the nearest 100?
   755
What is the total amount of rain that fell in the Autumn and Spring seasons? ? mm

3.8 ÷ 10 = ?

How much is the car in this sale? _____

£1,800 £1,650
£1,700 £1,550
1. What is the reading on the ruler in cm marked by the arrow below?

   ![Ruler Image]

   a) 7.55 cm  
   b) 7.60 cm  
   c) 7.65 cm  
   d) 7.70 cm

2. The picture below shows 3 linked gears. If gear A rotates clockwise, in which direction will gear B move?

   ![Gears Image]

   a) Clockwise  
   b) Vertically upwards  
   c) Anticlockwise  
   d) Vertically downwards

3. The three water storage tanks below have all developed leaks. Which one shows the correct pattern of water flow from the respective leaks?

   ![Tanks Image]

   a) Tank A  
   b) Tank B  
   c) Tank C  
   d) None of these
4. In the picture below, not drawn to scale, the shape on the left can be folded to make one of the shapes on the right. Identify the correct shape.

![Shapes](image)

a) Shape A  
b) Shape B  
c) Shape C  
d) Shape D

5. The circumference of the circle below is given by the equation $C = 2 \times \pi \times r$, where $r$ is the radius and $\pi$ is approximately 3.
If the circumference of the circle is 12 cm what is the radius of the circle?

![Circle](image)

a) 4 cm  
b) 3 cm  
c) 2 cm  
d) 1 cm

6. The cuboid below, not drawn to scale, measures 5 cm x 3 cm x 2 cm. What is the volume of the cuboid in cm³?

![Cuboid](image)

a) 120 cm³  
b) 48 cm³  
c) 30 cm³  
d) 12 cm³
7. What is $1/2$ of 50%?  
   a) 35%  
   b) 25%  
   c) 10%  
   d) 5%  

8. What is $6 \times 4/6$?  
   a) 6/4  
   b) 4/3  
   c) 2/5  
   d) 12/3  

9. What is $3 \times 1/4$?  
   a) 0.75  
   b) 1.5  
   c) 1.25  
   d) 1.0  

10. What is $1/10$ of 30%?  
    a) 3.7%  
    b) 3.5%  
    c) 3.0%  
    d) 7.5%  

11. The missing number in the following sequence is?  
    1, 2, 4, 8, ?, 32, ...  
    a) 17  
    b) 16  
    c) 14  
    d) 12  

12. The next number in the following sequence is?  
    10, 11, 13, 16, 20, ...  
    a) 30  
    b) 28  
    c) 25  
    d) 23
The following text shows the answers to the top four frequently asked questions (FAQs) asked by installers of the “Splash” Shower System Company. Use this text to answer the four questions that follow it:

**FAQ answer 1**
The “Splash” Divine range of ‘All in One’ power showers are products which have the pump and mixing valve in one box. They only require a minimum distance of 75mm from the base of the cold-water cistern to the top of the “Splash” Divine case. This is to ensure there is enough ‘gravity fed water’, to prime the internal pump. This vertical distance will need to be increased in direct proportion to how far the product is away from the stored cold water supply.

**FAQ answer 2**
The “Splash” Therm One shower is the first thermostatic electric shower, (controlling to +/– 1 degree centigrade) available. It incorporates push button control for flow and on/off control plus a version with extended lever temperature control for easier grip. A maximum temperature setting can currently be set to ensure the outlet temperature does not exceed 43 degrees centigrade.

**FAQ answer 3**
When the “Splash” Therm One, 10.8kW, shower is installed on a 240v supply it requires a 45 Amp supply fuse. To minimise voltage drop, and thereby maximise shower performance, the minimum cable size required must not be less than 6mm. All “Splash” electric showers will accommodate up to 10mm cable and the “Splash” Therm Two, up to 16mm. Use the shortest possible cable route from the consumer unit to the appliance.

**FAQ answer 4**
Do not connect a “Splash” Dream 3 to a mains water supply, as product damage will occur and Water Regulations will be contravened. The “Splash” Dream 3 is designed to be gravity fed from a cold water storage cistern. The “Splash” Dream 3 is not a power shower and a higher flow rate will not be achieved if installed on mains pressure. A ‘power shower’ is one where stored hot and cold water is pumped via a mixing valve.
The next four questions relate to the previous text:

13. What is the maximum size of cable that can be used with the Therm Two shower?
   a) 6 mm
   b) 10 mm
   c) 12 mm
   d) 16 mm

14. A power shower is one that is pumped via a mixing valve, and where?
   a) Hot and cold water are from a stored supply
   b) Cold water only is from a stored supply
   c) Hot water only is from a stored supply
   d) Hot and cold water are from the mains supply

15. What is the maximum outlet temperature that the thermostatic electric shower can be set for?
   a) 39°C
   b) 40°C
   c) 43°C
   d) 46°C

16. In the “Splash” Divine range, what is the minimum vertical distance between the base of the cold-water cistern and the top of the “Splash” Divine case?
   a) 7.5 m
   b) 75 cm
   c) 75 mm
   d) 7.5 mm
The picture below shows the equation $y = 2(x + 3)$ when plotted on a graph. Using this graph or otherwise, answer the three questions that follow it:

The next three questions relate to the previous graph:

17. What is the value of $y$ when $x = 3$?  
   a) 13  
   b) 12  
   c) 11  
   d) 10

18. What are the coordinates of point B?  
   a) (0, 5)  
   b) (0, 6)  
   c) (-1, 4)  
   d) (1, 8)

19. What is the mean of $x$ values for the points A and C?  
   a) -3  
   b) 3  
   c) -2  
   d) 2

Now turn to pages 18 and 19 and check your answers.
### APTITUDE ANSWER SHEET

The answers to the aptitude section are to be filled in on this page

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<td>65 mm</td>
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<td>39</td>
<td>£1,700</td>
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<td>20</td>
<td>celery</td>
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</table>
Answers to the JTL Assessment practice paper
Aptitude section

1  a  b  c  d
2  a  b  c  d
3  a  b  c  d
4  a  b  c  d
5  a  b  c  d
6  a  b  c  d
7  a  b  c  d
8  a  b  c  d
9  a  b  c  d
10 a  b  c  d

11 a  b  c  d
12 a  b  c  d
13 a  b  c  d
14 a  b  c  d
15 a  b  c  d
16 a  b  c  d
17 a  b  c  d
18 a  b  c  d
19 a  b  c  d
How to contact JTL:

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