

Numeracy and fares: questions and answers

45 practice questions for UK taxi and private hire knowledge tests, with answers and explanations at the end.

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Questions

Working out a fare

1. A tariff is £3.20 for the first mile, then £2.00 for each mile after that. What is the fare for a 5-mile journey?
☐ A. £10.00
☐ B. £13.20
☐ C. £11.20
☐ D. £8.00
2. The meter starts at £2.60 (the flag fall) and adds £1.80 for every mile. What is the fare for 4 miles?
☐ A. £7.20
☐ B. £9.80
☐ C. £10.40
☐ D. £4.40
3. A tariff is £3.00 for the first mile, then 25p for each fifth of a mile or part of a fifth. What is the fare for 2.5 miles?
☐ A. £4.75
☐ B. £5.00
☐ C. £6.25
☐ D. £2.00
4. The flag fall is £3.50 and covers the first half mile. After that it is 20p for each tenth of a mile. What is the fare for 3 miles?
☐ A. £9.50
☐ B. £8.50
☐ C. £5.00
☐ D. £8.00

5. The flag fall is £2.50 and covers the first half mile. After that it is 20p for each tenth of a mile. What is the fare for 3.2 miles?
- ☐ A. £8.90
☐ B. £5.40
☐ C. £7.70
☐ D. £7.90
6. The meter shows £8.40 for the distance. You also waited 7 minutes, and waiting time is 30p a minute. What is the total fare?
- ☐ A. £8.70
☐ B. £10.20
☐ C. £2.10
☐ D. £10.50
7. Waiting time is charged at 20p for every 30 seconds. A passenger keeps you waiting for 4 minutes. What is the waiting charge?
- ☐ A. £1.60
☐ B. £0.80
☐ C. £1.20
☐ D. £2.40
8. A journey costs £12.00 on the day tariff. The night tariff is 1.5 times the day tariff. What does the same journey cost at night?
- ☐ A. £13.50
☐ B. £18.00
☐ C. £15.00
☐ D. £24.00
9. A journey costs £10.40 on the normal tariff. On a bank holiday the tariff is 50% higher. What does the journey cost on a bank holiday?
- ☐ A. £10.90
☐ B. £15.40
☐ C. £15.60
☐ D. £20.80
10. The meter shows £14.60. The table of fares adds £1.00 for each passenger after the first. There are 4 passengers. What is the total?
- ☐ A. £17.60
☐ B. £15.60
☐ C. £16.60
☐ D. £18.60

11. The tariff is a £3.00 flag fall plus £1.50 for each mile. The fare was £9.00. How many miles was the journey?
- ☐ A. 4 miles
 - ☐ B. 3 miles
 - ☐ C. 5 miles
 - ☐ D. 6 miles

Giving change and splitting fares

12. The fare is £13.40. The passenger pays with a £20 note. How much change do you give?
- ☐ A. £6.40
 - ☐ B. £6.60
 - ☐ C. £7.40
 - ☐ D. £7.60
13. The fare is £7.65. The passenger pays with a £10 note. How much change do you give?
- ☐ A. £2.35
 - ☐ B. £2.45
 - ☐ C. £3.35
 - ☐ D. £3.45
14. The fare is £26.80. The passenger gives you a £20 note and a £10 note. How much change do you give?
- ☐ A. £3.20
 - ☐ B. £2.20
 - ☐ C. £3.80
 - ☐ D. £4.20
15. The fare is £18.75. The passenger pays with a £50 note. How much change do you give?
- ☐ A. £21.25
 - ☐ B. £31.75
 - ☐ C. £32.25
 - ☐ D. £31.25
16. The fare is £11.30. The passenger gives you £15 and says 'keep £1 as a tip'. How much change do you give?
- ☐ A. £2.70
 - ☐ B. £1.70
 - ☐ C. £3.70
 - ☐ D. £4.70
17. The fare is £5.90. The passenger gives you £10.40 so that the change is easier. How much change do you give?
- ☐ A. £3.50
 - ☐ B. £4.10
 - ☐ C. £4.50
 - ☐ D. £5.50

18. You owe a passenger £4.80 in change. You have £2, £1, 50p, 20p and 10p coins. What is the smallest number of coins you can give?

- ☐ A. 4 coins
- ☐ B. 6 coins
- ☐ C. 7 coins
- ☐ D. 5 coins

19. Three passengers share a fare of £24.60 equally. How much does each one pay?

- ☐ A. £7.20
- ☐ B. £8.60
- ☐ C. £12.30
- ☐ D. £8.20

20. Four friends share a fare of £31.00 equally. How much does each one pay?

- ☐ A. £7.25
- ☐ B. £7.50
- ☐ C. £7.75
- ☐ D. £8.25

21. The fare is £13.20. One passenger gives you £10 and the other gives you £5. How much change do you give in total?

- ☐ A. £1.80
- ☐ B. £1.20
- ☐ C. £2.80
- ☐ D. £3.80

22. The fare is £14.50. The passenger paid with a £20 note and you gave back £5.00. How much more change do you owe?

- ☐ A. £1.50
- ☐ B. £5.50
- ☐ C. Nothing
- ☐ D. 50p

Journey times and the 24-hour clock

23. You drive 12 miles at an average speed of 24 mph. How long does the journey take?

- ☐ A. 20 minutes
- ☐ B. 30 minutes
- ☐ C. 24 minutes
- ☐ D. 50 minutes

24. You drive 45 miles at an average speed of 30 mph. How long does the journey take?

- ☐ A. 1 hour 15 minutes
- ☐ B. 1 hour 45 minutes
- ☐ C. 1 hour 50 minutes
- ☐ D. 1 hour 30 minutes

25. You drive 8 miles at an average speed of 20 mph. How long does the journey take?

- ☐ A. 24 minutes
- ☐ B. 20 minutes
- ☐ C. 25 minutes
- ☐ D. 40 minutes

26. You drive for 36 minutes at an average speed of 30 mph. How far do you travel?

- ☐ A. 12 miles
- ☐ B. 15 miles
- ☐ C. 18 miles
- ☐ D. 20 miles

27. You leave at 14:35. The journey takes 50 minutes. What time do you arrive?

- ☐ A. 15:15
- ☐ B. 15:35
- ☐ C. 16:25
- ☐ D. 15:25

28. You pick up a passenger at 22:30. The journey takes 1 hour 45 minutes. What time do you arrive?

- ☐ A. 00:45
- ☐ B. 23:15
- ☐ C. 00:15
- ☐ D. 24:15

29. A passenger must be at the station by 08:10. The journey takes 25 minutes and you want 5 minutes spare. What is the latest time to pick them up?

- ☐ A. 07:35
- ☐ B. 07:45
- ☐ C. 07:40
- ☐ D. 07:50

30. A passenger books a car for 7.45 pm. How is this written in the 24-hour clock?

- ☐ A. 07:45
- ☐ B. 19:45
- ☐ C. 17:45
- ☐ D. 21:45

31. A booking is for 00:20. When is that?

- ☐ A. 20 minutes past midday
- ☐ B. 20 minutes past midnight
- ☐ C. 20 minutes past 8 in the evening
- ☐ D. 20 minutes past 2 in the morning

32. What is 15:05 in the 12-hour clock?

- ☐ A. 3.05 am
- ☐ B. 5.05 pm
- ☐ C. 1.05 pm
- ☐ D. 3.05 pm

33. A night tariff runs from 23:00 to 06:00. Which of these start times is in the night tariff?

- ☐ A. 06:15
- ☐ B. 22:45
- ☐ C. 05:30
- ☐ D. 18:00

Earnings, fuel and percentages

34. Your operator takes 15% commission. Your fares this week total £600. How much commission do you pay?

- ☐ A. £60
- ☐ B. £90
- ☐ C. £150
- ☐ D. £510

35. You take £840 in fares in a week. You pay £120 radio rent to the operator and £95 for fuel. How much is left?

- ☐ A. £625
- ☐ B. £605
- ☐ C. £720
- ☐ D. £745

36. Your car uses 1 litre of fuel every 8 miles. You drive 240 miles. Fuel costs £1.45 a litre. What does the fuel cost?

- ☐ A. £30.00
- ☐ B. £34.80
- ☐ C. £43.50
- ☐ D. £45.30

37. Your electric car uses 0.25 kWh for each mile. You drive 120 miles. Electricity costs 28p per kWh. What does the electricity cost?

- ☐ A. £3.36
- ☐ B. £8.40
- ☐ C. £33.60
- ☐ D. £84.00

38. The council puts up fares by 4%. A journey used to cost £12.50. What does it cost now?

- ☐ A. £12.54
- ☐ B. £12.90
- ☐ C. £13.50
- ☐ D. £13.00

39. A card payment company charges 1.75% of each payment. A passenger pays a £40 fare by card. What is the charge?

- ☐ A. 70p
- ☐ B. 7p
- ☐ C. £1.75
- ☐ D. £7.00

40. An account customer gets 10% off. The fare is £22.00. What do they pay?

- ☐ A. £19.80
- ☐ B. £12.00
- ☐ C. £20.00
- ☐ D. £21.80

41. You earn £168 in an 8-hour shift. How much is that for each hour?

- ☐ A. £16.80
- ☐ B. £20
- ☐ C. £21
- ☐ D. £22

42. A fixed price job pays £45 for 30 miles. How much is that per mile?

- ☐ A. £0.67
- ☐ B. £1.50
- ☐ C. £1.35
- ☐ D. £15.00

43. The mileage reading was 45,280 at the start of your shift and 45,463 at the end. How many miles did you drive?

- ☐ A. 173 miles
- ☐ B. 193 miles
- ☐ C. 283 miles
- ☐ D. 183 miles

44. An operator rounds fares up to the next 10p. The worked-out fare is £14.63. What does the passenger pay?

- ☐ A. £14.60
- ☐ B. £14.65
- ☐ C. £14.70
- ☐ D. £15.00

45. Your vehicle is licensed to carry 4 passengers. A group of 7 people want to travel together. How many vehicles do they need?

- ☐ A. 2 vehicles
- ☐ B. 1 vehicle
- ☐ C. 3 vehicles
- ☐ D. 4 vehicles

Answers

1. **C. £11.20.** The first mile costs £3.20. That leaves 4 miles at £2.00 = £8.00. £3.20 + £8.00 = £11.20.
2. **B. £9.80.** 4 miles $\times$ £1.80 = £7.20. Add the flag fall: £7.20 + £2.60 = £9.80.
3. **B. £5.00.** After the first mile there are 1.5 miles left. That is 7.5 fifths, and a part counts as a whole, so $8 \times 25\text{p} = £2.00$. £3.00 + £2.00 = £5.00.
4. **B. £8.50.** After the first half mile there are 2.5 miles left = 25 tenths. $25 \times 20\text{p} = £5.00$. £3.50 + £5.00 = £8.50.
5. **D. £7.90.** $3.2 - 0.5 = 2.7$ miles = 27 tenths. $27 \times 20\text{p} = £5.40$. £2.50 + £5.40 = £7.90.
6. **D. £10.50.** 7 minutes $\times$ 30p = £2.10. £8.40 + £2.10 = £10.50.
7. **A. £1.60.** 4 minutes = 8 lots of 30 seconds. $8 \times 20\text{p} = £1.60$.
8. **B. £18.00.** 1.5 times £12.00 = £12.00 + £6.00 = £18.00.
9. **C. £15.60.** 50% of £10.40 is £5.20. £10.40 + £5.20 = £15.60.
10. **A. £17.60.** Only passengers after the first are charged: $3 \times £1.00 = £3.00$. £14.60 + £3.00 = £17.60.
11. **A. 4 miles.** Take off the flag fall: £9.00 – £3.00 = £6.00. £6.00 $\div$ £1.50 = 4 miles.
12. **B. £6.60.** £20.00 – £13.40 = £6.60. Check: £13.40 + £6.60 = £20.00.
13. **A. £2.35.** £10.00 – £7.65 = £2.35. Check: £7.65 + £2.35 = £10.00.
14. **A. £3.20.** £20 + £10 = £30.00. £30.00 – £26.80 = £3.20.
15. **D. £31.25.** £50.00 – £18.75 = £31.25. Check: £18.75 + £31.25 = £50.00.
16. **A. £2.70.** £15.00 – £11.30 = £3.70. Take off the £1 tip: £3.70 – £1.00 = £2.70.
17. **C. £4.50.** £10.40 – £5.90 = £4.50. Check: £5.90 + £4.50 = £10.40.
18. **D. 5 coins.** £2 + £2 + 50p + 20p + 10p = £4.80. That is 5 coins.
19. **D. £8.20.** £24.60 $\div$ 3 = £8.20. Check: $3 \times £8.20 = £24.60$.
20. **C. £7.75.** £31.00 $\div$ 4 = £7.75. Check: $4 \times £7.75 = £31.00$.
21. **A. £1.80.** £10 + £5 = £15.00. £15.00 – £13.20 = £1.80.
22. **D. 50p.** The correct change is £20.00 – £14.50 = £5.50. You gave £5.00, so you still owe 50p.
23. **B. 30 minutes.** Time = distance $\div$ speed. $12 \div 24 = 0.5$ hours, which is 30 minutes.
24. **D. 1 hour 30 minutes.** $45 \div 30 = 1.5$ hours. Half an hour is 30 minutes, so the journey takes 1 hour 30 minutes, not 1 hour 50.
25. **A. 24 minutes.** $8 \div 20 = 0.4$ hours. $0.4 \times 60 = 24$ minutes.
26. **C. 18 miles.** 36 minutes is 0.6 of an hour. $0.6 \times 30 = 18$ miles.
27. **D. 15:25.** 14:35 + 25 minutes = 15:00. Add the other 25 minutes: 15:25.

28. **C. 00:15.** $22:30 + 1 \text{ hour} = 23:30$. $23:30 + 45 \text{ minutes} = 00:15$, which is a quarter past midnight. The clock goes back to 00 after 23:59.
29. **C. 07:40.** $25 + 5 = 30$ minutes. $08:10 - 30 \text{ minutes} = 07:40$.
30. **B. 19:45.** For pm times, add 12 to the hour: $7 + 12 = 19$, so 7.45 pm is 19:45.
31. **B. 20 minutes past midnight.** 00:20 in the 24-hour clock is 12.20 am: 20 minutes after midnight.
32. **D. 3.05 pm.** Take 12 away from hours after 12: $15 - 12 = 3$, so 15:05 is 3.05 pm.
33. **C. 05:30.** 05:30 is between 23:00 and 06:00, so it is in the night tariff. 06:15, 22:45 and 18:00 are all outside it.
34. **B. £90.** 10% of £600 is £60 and 5% is £30. $15\% = £60 + £30 = £90$. (£510 is what you keep, not the commission.)
35. **A. £625.** $£120 + £95 = £215$. $£840 - £215 = £625$.
36. **C. £43.50.** $240 \div 8 = 30$ litres. $30 \times £1.45 = £43.50$.
37. **B. £8.40.** $120 \times 0.25 = 30$ kWh. $30 \times 28\text{p} = £8.40$. (£33.60 is $120 \times 28\text{p}$, which forgets the 0.25.)
38. **D. £13.00.** 1% of £12.50 is 12.5p, so 4% is 50p. $£12.50 + £0.50 = £13.00$.
39. **A. 70p.** 1% of £40 is 40p. $1.75 \times 40\text{p} = 70\text{p}$.
40. **A. £19.80.** 10% of £22.00 is £2.20. $£22.00 - £2.20 = £19.80$.
41. **C. £21.** $£168 \div 8 = £21$ an hour.
42. **B. £1.50.** $£45 \div 30 = £1.50$ a mile.
43. **D. 183 miles.** $45,463 - 45,280 = 183$ miles.
44. **C. £14.70.** Rounding up to the next 10p turns £14.63 into £14.70. £14.60 would be rounding down.
45. **A. 2 vehicles.** $7 \div 4 = 1.75$, and you cannot send part of a vehicle, so round up to 2. Never carry more passengers than your licence allows.

Sources

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