

Grade 3 · Time, Liquid Volume and Mass · Quiz

Common Core 3.MD.A.1, 3.MD.A.2 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

Test what you know about time, mass, and liquid volume with 10 multiple choice questions. Read the clock, number line, scale, and beaker pictures, then pick the one correct answer. The explanation after each question shows how to solve it.

Grade 3 Common Core: 3.MD.A.1 · 3.MD.A.2

Questions

Question 1

What time does the clock show?

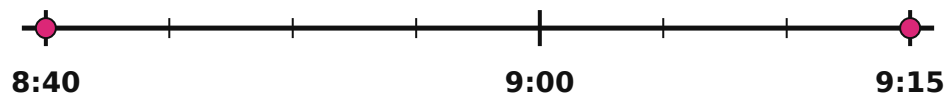


Clock for Quiz question 1.

- A. 6:04
- B. 5:23
- C. 4:30
- D. 6:23

Question 2

Maya practices from 8:40 to 9:15. How long does she practice?

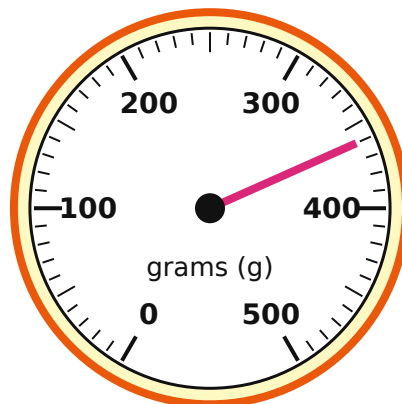


Number line for Quiz question 2.

- A. 25 minutes
- B. 55 minutes
- C. 35 minutes
- D. 65 minutes

Question 3

What mass does the scale show?

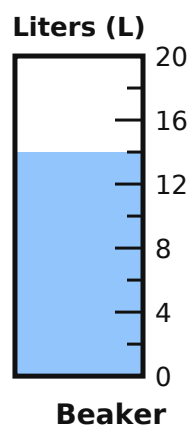


Scale for Quiz question 3.

- A. 460 grams
- B. 306 grams
- C. 360 grams
- D. 260 grams

Question 4

How many liters of water are in the beaker?



Beaker for Quiz question 4.

- A. 12 liters
- B. 14 liters
- C. 16 liters

D. 7 liters

Question 5

A science class starts at 9:35 and lasts 40 minutes. What time does it end?

- A. 10:05
- B. 10:15
- C. 10:25
- D. 9:55

Question 6

Noah finished reading at 5:10. He read for 25 minutes. What time did he start?

- A. 5:35
- B. 4:35
- C. 4:55
- D. 4:45

Question 7

Diego buys 7 bags of potatoes. Each bag has a mass of 4 kilograms. What is the total mass?

- A. 11 kilograms
- B. 24 kilograms
- C. 28 kilograms
- D. 32 kilograms

Question 8

A tub holds 45 liters of water. Aisha drains 18 liters. How many liters are left?

- A. 37 liters
- B. 27 liters
- C. 63 liters
- D. 23 liters

Question 9

A shipment of 42 kilograms is packed into 6 equal boxes. What is the mass of each box?

- A. 7 kilograms
- B. 36 kilograms
- C. 48 kilograms
- D. 8 kilograms

Question 10

Which one is best measured in liters?

- A. the water in a bathtub

- B. a sandwich on a scale
- C. a clock reading
- D. a bag of rice

Answer key

1. **D** – The hour hand is just past the 6. The minute hand is on the 4 (20 minutes) and 3 marks beyond, so it is 6:23. Reading the 4 as 4 minutes gives the wrong answer 6:04.
2. **C** – Jump 20 minutes from 8:40 to 9:00 and 15 minutes more to 9:15: $20 + 15 = 35$. Subtracting 40 - 15 ignores that the time crosses the hour.
3. **C** – The needle is 6 marks past 300, and each mark is 10 grams: $300 + 60 = 360$. Writing 306 mixes up tens and ones.
4. **B** – The labeled marks go 0, 4, 8, 12, 16, 20, and each small mark is 2 liters. The water is 1 mark above 12, so it is 14 liters. Counting the marks as 1 liter each gives 7.
5. **B** – Jump 25 minutes from 9:35 to 10:00, then 15 more minutes to 10:15: $25 + 15 = 40$. Adding 40 to the minutes gives 75, which must be changed to 1 hour 15 minutes.
6. **D** – Go back 10 minutes from 5:10 to 5:00, then 15 more minutes to 4:45. The answer 5:35 comes from adding instead of going back.
7. **C** – Seven equal groups of 4 is $7 \times 4 = 28$. Adding $7 + 4 = 11$ does not count equal groups.
8. **B** – $45 - 18 = 27$. The answer 63 comes from adding, and 37 comes from subtracting the smaller digit in each place.
9. **A** – Sharing equally means divide: $42 / 6 = 7$ because $6 \times 7 = 42$. Subtracting or adding 6 does not share the mass equally.
10. **A** – Liters measure liquid volume, and a bathtub holds water. A sandwich and a bag of rice have mass, which is measured in grams or kilograms.

Remember:

- The hour hand shows the hour; the minute hand shows minutes, counted by 5s and then by 1s.
- Elapsed time is the time from a start to an end, and a number line with jumps shows it.
- Grams (g) measure small masses and kilograms (kg) measure larger masses.
- Liters (L) measure liquid volume, and a beaker scale shows how many liters it holds.
- Use the same unit, then add, subtract, multiply, or divide to solve the story.