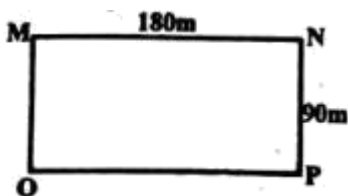# COMPETENCE BASED CURRICULUM
HOMEWORK ENGAGEMENT PROGRAM
GRADE 6 2024   AUGUST
MATHEMATICS

1.   Mkombozi village had a total of 43 261 children. Out of these, only one hundred and ninety three were not vaccinated against polio. How many children were vaccinated?

    A. Forty three thousand, one hundred and sixty eight
    B. Forty three thousand and sixty eight
    C. Forty two thousand and sixty eight
    D. Forty two thousand one hundred and sixty eight

2. An agricultural show was attended by 1 610 men, 1 266 women and 966 children. What is the total number of adults who attended the show rounded off to the nearest thousand?

    A. 3842
    B. 2876
    C. 4000
    D. 3000

3. In a class of 33 pupils, each pupil had 33 beads for an Art and Craft lesson. How many beads were there altogether?

    A. 66
    B. 1189
    C. 1089
    D. 1098

4. A Grade six teacher asked each learner to bring a number of seeds equal to the total number of pupils in the class. If a total of 1 156 seeds were brought, how many pupils were in that class?

    A. 47
    B. 39
    C. 34
    D. 27

5. During a Homescience lesson, Grade six learners mixed $3\frac{1}{5}$ litres of milk with $6\frac{2}{3}$ litres of water to prepare tea. What was the total mixture?

    A. $9\frac{3}{5}$
    B. $9\frac{13}{15}$
    C. $10\frac{3}{5}$
    D. $10\frac{13}{15}$

6. During a heavy downpour, a tank became 95% full of water. What is this capacity as a fraction?

    A. $\frac{95}{100}$
    B. $1\frac{1}{20}$
    C. $\frac{9}{20}$
    D. $\frac{19}{20}$
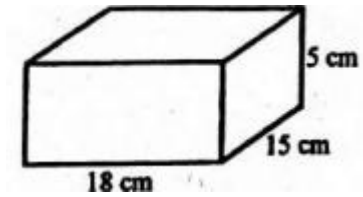
7. In a matatu carrying 20 passengers, 8 passengers are females and the rest are males. What percentage of the passengers are females?

    A. 12%
    B. 28%
    C. 60%
    D. 40%

8. What is the place value of digit 4 in the sum of 11.10 and 10.35?

    A. Tens
    B. Hundreds
    C. Hundredths
    D. Tenths

9. Andese bought 846.85 kg of potatoes. During transportation, 29.98 kg got spoilt. What mass remained?

    A. 816.77 kg
    B. 826.87 kg
    C. 816.87 kg
    D. 826.77 kg

10. What is the value of

    64 x 68 ÷17 - 28 + 16?

    A. 244
    B. 144
    C. 134
    D. 234

11. Kimani cycled for 96 km and 43 m while Njogu cycled for 55 km and 19 m. By how many kilometres and metres did Kimani cycle more than Njogu?

    A. 24km 41m
    B. 41km 24m
    C. 23km 41m
    D. 31km 24m

12. Multiply 86 km 94 m by 8

    A. 695 km 52 m
    B. 689 km 752 m
    C. 688 km 752 m
    D. 688 km 1752 m

13. Kibena had 9-5 litre containers full of water. She later poured out the water into 3 litre containers. How many containers did she use?

    A. 45
    B. 17
    C. 42
    D. 15

14. Below is a representation of a school field

Kingi walked from point M to N through O and P and back to M through the same route. What distance did he cover altogether?

- A. 540 m
- B. 360 m
- C. 720 m
- D. 1080 m

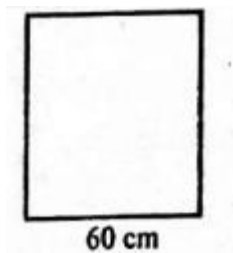15. The diagram below represents Machogu's home bank.

What is its volume?

- A. 270 cm³
- B. 75 cm³
- C. 1350 cm³
- D. 90 cm³

16. A table weighs 33 kg and a stool weighs 29 kg. How heavier is the table than the stool?

- A. 62 g
- B. 62000 g
- C. 4 g
- D. 4000 g

17. The square below represents the top of Rajab's table.

What is its area?

- A. 3600 cm²
- B. 360 cm²
- C. 240 cm²
- D. 2400 cm²

18. A bullfight started at the time shown on the clockface below.

If the bullfight lasted for 2700 seconds, which of the following clock faces shows the time it ended?
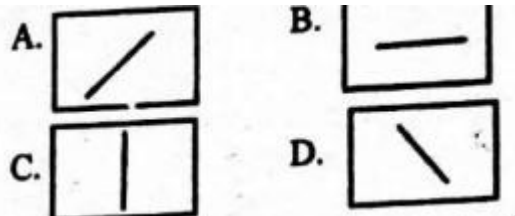
    A. A
    B. B
    C. C
    D. D

19. A cartoon program lasted for 45 minutes, news took 50 minutes and a religious show lasted for 1 hour. What was the total time consumed by the three programs?

    A. 2 hours 35 minutes
    B. 1 hour 35 minutes
    C. 2 hours 45 minutes
    D. 1 hour 45 minutes

20. Which of the following services provided by banks in our country?

    A. Printing notes for circulation
    B. Issuing visas to the workers
    C. Lending loans to citizens
    D. Ensuring national security
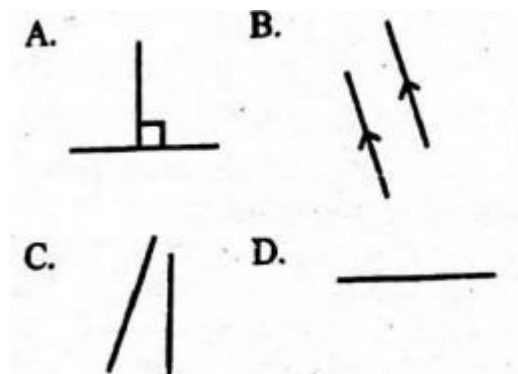
21. Which of the following boxes contains a vertical line?

    A. A
    B. B
    C. C
    D. D
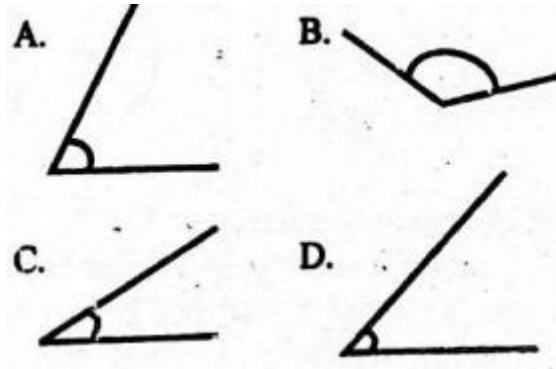
22. Kandawala saw railway lines during his visit to his friend. Which of the following represents what he saw?
    A. A

B. B

C. C

D. D

23. Which of the following angles measures 35º?

A. A

B. B

C. C

D. D

24. Simplify the algebraic equation below.

16 n + 9 r- 5n + r

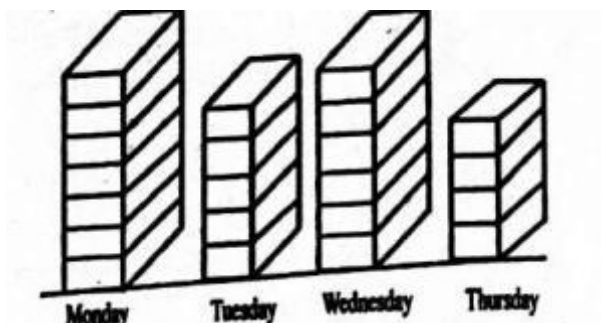A. 10 n + 11 r

B. 10 n + 11 r

C. 11 n - 10 r

D. 11 n + 10 r

25. Maua and his brother had 4 oranges each. They gave Sally w oranges. Which of the following expressions represents this information?

A. 4 - w

B. 4 - 2 w

C. (4 + 4) - w

D. 8 - 4 w

26. In a class of 25 learners, each learner was given m packets of milk. If seven packets remained, after sharing 57 packets, what is m?

A. 32

B. 7

C. 5

D. 2

27. **The piled matchboxes below represent the number of seedlings planted by Grade six learners in their school compound for a period of four days. One matchbox represents two seedlings.**

How many seedlings were planted on last two days?

    A. 10
    B. 20
    C. 30
    D. 15

28. Which two days had a total of 22 seedlings?

    A. Tuesday and Wednesday
    B. Monday and Tuesday
    C. Wednesday and Thursday
    D. Tuesday and Friday

29. Which two days had the least number of seedlings?

    A. Wednesday and Thursday
    B. Tuesday and Monday
    C. Monday and Wednesday
    D. Thursday and Tuesday

30. How many seedlings were planted in the four days altogether?

    A. 22
    B. 88
    C. 44
    D. 11

Answers

1. Forty three thousand and sixty eight

2. 3000

3. 1089

4. 34

5. $9^{13}/_{15}$

6. $^{19}/_{20}$

7. 40%

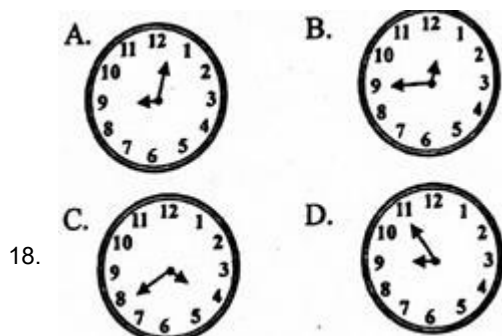8. Tenths

9. 816.87 kg

10. 244

11. 41km 21m

12. 688 km 752 m

13. 15

14. 720 m

15. 1350 cm³

16. 4000 g

17. 3600 cm²

18.

19. 2 hours 35 minutes

20. Lending loans to citizens

21. C

22. B

23. C

24. 11 n - 10 r

25. (4 + 4) - w

26. 2

27. 20

28. Tuesday and Wednesday

29. Thursday and Tuesday

30. 44