Temari.et

Mathematics, 2018 EC, Grade 6 model exam

Grade 6 · Mathematics · 2018 E.C.

MARKING KEY: CONFIDENTIAL

Time allowed: 120 minutes | **Questions:** 28 | **Total marks:** 28

Sit this paper online with instant scoring, free on Temari.et.
temari.et/exam-prep/papers/grade-6-mathematics-2018-model

1. ርዝመቱ 5.5 ሳ.ሜ የሆነ ካሬ ስፋቱ ስንት ይሆናል ? (1)

A. 11 ሳ.ሜ^2
B. 40.5 ሳ.ሜ^2
C. ✓ **30.25 ሳ.ሜ^2**
D. 50 ሳ.ሜ^2

Answer: C
The area of a square is calculated by squaring its side length: $5.5\ \text{cm} \times 5.5\ \text{cm} = 30.25\ \text{cm}^2$.

2. 1 ሳ.ሜ^2 ስንት ሚ.ሜ^2 ነው ? (1)

A. 10 ሚ.ሜ^2
B. ✓ **100 ሚ.ሜ^2**
C. 10,000 ሚ.ሜ^2
D. 100,000ሚ.ሜ^2

Answer: B
Since $1\ \text{cm} = 10\ \text{mm}$, the area conversion is $1\ \text{cm}^2 = (10\ \text{mm})^2 = 100\ \text{mm}^2$.

3. የጎን ርዝመቱ 5 ሳ.ሜ ፣ ወርዱ 4 ሳ.ሜ እንዲሁም ቁመቱ 3 ሳ.ሜ የሆነ ሳጥን ይዘቱ ስንት ይሆናል ? (1)

A. 40 ሳ.ሜ^3
B. 50ሳ.ሜ^3
C. ✓ **60ሳ.ሜ^3**
D. 70ሳ.ሜ^3

Answer: C
The volume of a rectangular box is the product of its length, width, and height: $5\ \text{cm} \times 4\ \text{cm} \times 3\ \text{cm} = 60\ \text{cm}^3$.

4. 5ሜ^3 ወደ ሳ.ሜ^3 ሲቀየር ስንት ይሆናል ? (1)

A. 500ሳ.ሜ^3
B. 5,000ሳ.ሜ^3
C. 500,000ሳ.ሜ^3
D. ✓ **5,000 , 000 ሳ.ሜ^3**

Answer: D
Since $1\ \text{m} = 100\ \text{cm}$, the volume conversion is $1\ \text{m}^3 = 100^3\ \text{cm}^3 = 1,000,000\ \text{cm}^3$. Thus, $5\ \text{m}^3 = 5,000,000\ \text{cm}^3$.

5. በአራዳ ክ/ከተማ የሴቶች እና ህፃናት መስሪያ ቤት ውስጥ በተዘጋጀ ስልጠና በስብሰባው ላይ ለተገኙ ሴቶች በምሳ ሰዓት በቀረበው የለስላሳ መጠጥ ሳጥን ሲደረደር ርዝመቱ 5 ሳጥን ፣ወርዱ 4 ሳጥን እና ከፍታው 3 ሳጥን ቢሆን ፤ በአጠቃላይ በስብሰባው ላይ ተሰባሳቢዎቹ ለምሳ የተጠቀሙት የለስላሳ ሳጥን ብዛት ስንት ይሆናል ? (1)

A. ✓ **60 ሳጥን**
B. 50 ሳጥን
C. 40 ሳጥን
D. 70 ሳጥን

Answer: A
The total number of boxes is calculated by multiplying the dimensions of the arrangement: $5 \times 4 \times 3 = 60$ boxes.

6. ከሚከተሉት ውስጥ አንዱ ህገ-ወጥ ክፍልፋይ አይደለም ። (1)

A. 8/8 **B.** 26

C. 46/45 **D.** ✓ **12/13**

> **Answer:** D
> An improper fraction (ህገ-ወጥ ክፍልፋይ) is a fraction where the numerator is greater than or equal to the denominator. Since the numerator of $\frac{12}{13}$ is less than its denominator, it is a proper fraction (not improper).

7. 4 አንድች 3 አንድ አስረኛዎች እና 2 አንድ መቶኛዎች የሚለውን አገላለፅ የሚወክለው ቁጥር የቱ ነው ? (1)

A. ✓ **4.32** **B.** 23.4

C. 432 **D.** 234

> **Answer:** A
> The expression '4 ones, 3 tenths, and 2 hundredths' is written as $4 \times 1 + 3 \times 0.1 + 2 \times 0.01 = 4.32$.

8. 2.3 - 1.15 = ---------- (1)

A. 1.25 **B.** ✓ **1.15**

C. 1.51 **D.** 1.52

> **Answer:** B
> Subtracting 1.15 from 2.30 gives 1.15 ($2.30 - 1.15 = 1.15$).

9. 21.5 ÷ 2.5 = ---------- (1)

A. 7.6 **B.** ✓ **8.6**

C. 9.6 **D.** 10.6

> **Answer:** B
> Dividing 21.5 by 2.5 is equivalent to dividing 215 by 25, which yields 8.6.

10. 24/120 ወደ አስርዮሽ ሲለወጥ ስንት ይሆናል ? (1)

A. ✓ **0.2** **B.** 0.3

C. 0.4 **D.** 0.5

> **Answer:** A
> To convert $\frac{24}{120}$ to a decimal, simplify the fraction first: $\frac{24}{120} = \frac{2}{10} = 0.2$.

11. 130 የ400 ስንት መቶኛ ነው ? (1)

A. 30.5% **B.** 31.5%

C. ✓ **32.5%** **D.** 33.5%

> **Answer:** C
> To find the percentage, calculate $\frac{130}{400} \times 100\% = 32.5\%$.

12. 1,400 ብር የሚሸጥ ቲሸርት 15% ተጨማሪ እሴት ታክስ(VAT) ሲጨመርበት ስንት ይሆናል ? (1)

A. 1,410 ብር **B.** 1,510 ብር

C. ✓ **1,610 ብር** **D.** 1,710 ብር

> **Answer:** C
> A 15% VAT on $1,400$ Birr is $1,400 \times 0.15 = 210$ Birr, making the total price $1,400 + 210 = 1,610$ Birr.

13. $\frac{81}{45}$ በዝቅተኛ ሂሳባዊ ቃል ሲገለፅ ስንት ይሆናል ? (1)

A. $\frac{5}{9}$
B. $\frac{9}{4}$
C. $\frac{4}{9}$
D. ✓ $\frac{9}{5}$

> **Answer:** D
> The greatest common divisor of 81 and 45 is 9. Dividing both the numerator and denominator by 9 gives the simplified fraction $\frac{9}{5}$.

14. 0.215 ወደ ክፍልፋይ ሲቀየር የትኛውን ይወክላል ? (1)

A. $\frac{215}{100}$
B. $\frac{125}{1000}$
C. ✓ $\frac{215}{1000}$
D. $\frac{125}{100}$

> **Answer:** C
> The decimal 0.215 has three decimal places, which represents the fraction $\frac{215}{1000}$.

15. ከትልቅ ወደ ትንሽ በቅደም ተከተል የተቀመጠውን ምረጡ ። (1)

A. $\frac{1}{6}\ \frac{3}{7}\ \frac{1}{7}\ \frac{3}{5}$
B. ✓ $\frac{3}{5}\ \frac{3}{7}\ \frac{1}{6}\ \frac{1}{7}$
C. $\frac{3}{7}\ \frac{3}{5}\ \frac{1}{6}\ \frac{1}{7}$
D. $\frac{1}{6}\ \frac{3}{5}\ \frac{1}{7}\ \frac{3}{7}$

> **Answer:** B
> Converting the fractions to decimals gives $\frac{3}{5} = 0.6$, $\frac{3}{7} \approx 0.428$, $\frac{1}{6} \approx 0.167$, and $\frac{1}{7} \approx 0.143$, which are correctly ordered from largest to smallest in option B.

16. ከሚከተሉት ቁጥሮች ውስጥ በ2 ፣ 3 ፣ 4 ፣ 5 ፣ 6 እና በ7 ተካፋይ የሆነው የትኛው ነው ? (1)

A. ✓ **420**
B. 3,234
C. 2,303
D. 2,340

> **Answer:** A
> The least common multiple (LCM) of $2, 3, 4, 5, 6,$ and 7 is 420. Since 420 is in the options, it is the only number divisible by all of them.

17. የ10 ፣ 20 እና 30 የጋራ አካፋዮች የትኞቹ ናቸው ? (1)

A. ✓ **1 ፣ 2 ፣ 5 ፣ 10**
B. 1 ፣ 2 ፣ 4 ፣ 5 ፣ 10
C. 1 ፣ 10 ፣ 20 ፣ 30
D. 10 ፣ 20 ፣ 30

> **Answer:** A
> The factors of 10 are $\{1, 2, 5, 10\}$, all of which also divide 20 and 30, making them the set of common factors.

18. የ $1\frac{2}{5}$ እና $\frac{3}{4}$ ድምር ስንት ነው ? (1)

A. $\frac{34}{20}$
B. ✓ $\frac{43}{20}$
C. $\frac{20}{34}$
D. $\frac{20}{43}$

> **Answer:** B
> Convert the mixed number to an improper fraction: $1\frac{2}{5} = \frac{7}{5}$. Their sum is $\frac{7}{5} + \frac{3}{4} = \frac{28+15}{20} = \frac{43}{20}$.

19. የ205 እና ሌላ ሙሉ ቁጥር ት.ጋ .አ 5 ነው ፤ የሁለቱ ቁጥሮች ት.ጋ.ብ 12,300 ቢሆን ሁለተኛ ሙሉ ቁጥር ስንት ይሆናል ? (1)

A. 400
B. ✓ **300**
C. 250
D. 505

> **Answer:** B
> Using the relation $\text{GCD}(a, b) \times \text{LCM}(a, b) = a \times b$, we have $5 \times 12,300 = 205 \times x$, which simplifies to $x = 300$.

20. ትንሹ ተተንታኝ ኢ- ተጋማሽ ቁጥር ስንት ነው ? (1)

A. 1
B. 3
C. 5
D. ✓ **9**

> **Answer:** D
> An odd composite number (ተተንታኝ ኢ-ተጋማሽ ቁጥር) is an odd number that has more than two factors. The smallest such number is 9, as its factors are $1, 3,$ and 9.

21. ከ 1% ጋር እኩል ያልሆነው የትኛው ነው ? (1)

A. 0.01
B. $3/300$
C. ✓ $2/300$
D. $1/100$

> **Answer:** C
> $1\% = 0.01 = \frac{1}{100}$. Since $\frac{2}{300} = \frac{1}{150} \approx 0.0067$, it is not equal to 1%.

22. አንድ ሙሉ ቁጥር ኢ - ተጋማሽ የሚሆነው የቁጥሩ የአንድ ቤት ሆሄ ስንት ሲሆን ነው ? (1)

A. ✓ **1፤ 3፤ 5፤ 7፤ 9**
B. 0፤ 2፤ 3፤ 6፤ 8
C. 0፤ 2፤ 4፤ 6፤ 8
D. 2፤ 5፤ 10

> **Answer:** A
> An integer is odd (ኢ-ተጋማሽ) if and only if its ones digit (የአንድ ቤት ሆሄ) is an odd digit, which can be $1, 3, 5, 7,$ or 9.

23. አንድ ነጋዴ በ50,000 ብር የገዛውን ቴሌቪዥን በ5% አትርፎ ቢሸጥ ፤ ነጋዴው ያተረፈው ስንት ብር ነው? (1)

A. 3,000 ብር
B. ✓ **2,500 ብር**
C. 2,400 ብር
D. 3,500 ብር

> **Answer:** B
> The profit made is 5% of $50,000$ Birr, which is calculated as $50,000 \times 0.05 = 2,500$ Birr.

24. $7/20$ ወደ መቶኛ ሲቀየር ስንት ይሆናል ? (1)

A. 45%
B. 55%
C. 25%
D. ✓ **35**

> **Answer:** D
> To convert $\frac{7}{20}$ to a percentage, multiply by 100%: $\frac{7}{20} \times 100\% = 7 \times 5\% = 35\%$.

25. ሀና ለቤተሰቦቿ $33/6$ ኪ.ግ ሙዝ እና 5.6 ኪ.ግ ብርቱካን ገዛች ፤ ሀና በአጠቃላይ ስንት ኪ .ግ ፍራፍሬ ገዛች? (1)

A. 15.15ኪ.ግ
B. 11.5ኪ.ግ
C. ✓ **11.1 ኪ.ግ**
D. 9.4ኪ.ግ

> **Answer:** C
> Converting 33/6 kg to decimals gives 5.5 kg. Adding this to 5.6 kg of oranges results in a total of 11.1 kg of fruits.

26. $30/4 - 0.9 =$ ---------- (1)

A. 4.6
B. 5.6
C. ✓ **6.6**
D. 7.6

> **Answer:** C
> First, convert the fraction 30/4 to its decimal form, which is 7.5. Then, subtracting 0.9 from 7.5 gives 6.6.

27. የ $5/3$ እና 0.2 ብዜት ስንት ነው ? (1)

A. ✓ $1/3$ **B.** $1/2$

C. $1/4$ **D.** $1/5$

> **Answer:** A
> The product of 5/3 and 0.2 is calculated by converting 0.2 to the fraction 1/5, giving (5/3) * (1/5) = 1/3.

28. $0.32 \div 5/4 =$ ---------- (1)

A. 0.325 **B.** ✓ **0.256**

C. 0.562 **D.** 0.725

> **Answer:** B
> Dividing 0.32 by 5/4 is equivalent to multiplying 0.32 by the reciprocal 4/5 (or 0.8), which yields 0.32 * 0.8 = 0.256.

END OF THE MARKING KEY

Sit this paper online at temari.et/exam-prep/papers/grade-6-mathematics-2018-model.
More exam papers are at temari.et/exam-prep/papers.

Generated on Tikimt 2, 2019 E.C. (October 12, 2026 G.C.) · Temari.et