

Grade 10 Admission Exam

Math Practice Questions

نموذج عن اسئلة الرياضيات لامتحان القبول للصف العاشر

Instructions

- ❖ Questions in this documents represent a sample of the exam questions
- ❖ Some questions are written in both languages: Arabic and English
- ❖ All questions were designed such that calculators are not needed
- ❖ Answers to the sample questions are provided on the last page of this document

إرشادات

- ❖ الاسئلة في هذا المستند تمثل عينة من نمط اسئلة الامتحان
- ❖ بعض الاسئلة مكتوبة باللغتين: العربية والانكليزية
- ❖ كل الاسئلة صممت بحيث لا تتطلب استخدام الآلة الحاسبة
- ❖ اجابات الاسئلة النموذجية موجودة في الصفحة الأخيرة من هذا المستند

01. $\frac{17}{21} - \frac{11}{21} =$

[A] $\frac{2}{21}$

[B] $\frac{1}{21}$

[C] $\frac{16}{21}$

[D] $\frac{2}{7}$

[E] 6

02. $6 + 0.73 + 1.3 =$

[A] 6.86

[B] 8.30

[C] 8.03

[D] 7.30

[E] 8.33

03. $5 - 0.33 =$

[A] 5.67

[B] 4.77

[C] 5.77

[D] 4.33

[E] 4.67

04. $3\frac{4}{7} + 5\frac{5}{7} =$

[A] $5\frac{2}{7}$

[B] $9\frac{2}{7}$

[C] $9\frac{9}{7}$

[D] $8\frac{9}{14}$

[E] $\frac{17}{7}$

05. $\frac{1}{5} + \frac{2}{9} =$

[A] $\frac{3}{14}$

[B] $\frac{2}{45}$

[C] $2\frac{1}{9}$

[D] $\frac{19}{45}$

[E] $3\frac{4}{5}$

06. $6 - 1\frac{3}{7} =$

[A] $4\frac{4}{7}$

[B] $5\frac{3}{7}$

[C] $5\frac{1}{7}$

[D] $4\frac{1}{7}$

[E] $5\frac{4}{7}$

07. $7 \times \frac{2}{5} =$

[A] $\frac{14}{35}$

[B] $\frac{2}{35}$

[C] $14\frac{1}{5}$

[D] $7\frac{2}{5}$

[E] $2\frac{4}{5}$

08. $5 \overline{)252}$

[A] 50.2

[B] 50 R 2 [50 والباقي 2]

[C] 5 R 2 [5 والباقي 2]

[D] 5 R 20 [5 والباقي 20]

[E] 5.2

09. $13 \div \frac{2}{7} =$

[A] $13\frac{2}{7}$

[B] $6\frac{1}{2}$

[C] $45\frac{1}{2}$

[D] $6\frac{1}{14}$

[E] $3\frac{5}{7}$

10.
$$\begin{array}{r} 0.125 \\ \times 800 \\ \hline \end{array}$$

[A] 100

[B] 10

[C] 1

[D] 0.1

[E] 0.01

11. $6.17 \times 5.9 =$

[A] 35.403

[B] 36.403

[C] 36.43

[D] 34.503

[E] 36.503

12. The positive square root of 190 is between:

- [A] 10 and 11
- [B] 11 and 12
- [C] 12 and 13
- [D] 13 and 14
- [E] 50 and 100

13. Solve $6x - 8 = x + 12$, $x \in \mathbb{N}$

- [A] $x = 4$
- [B] $x = 6$
- [C] $x = 5$
- [D] $x = 3$
- [E] $x = 20$

14. Find the value of $5x - 2y$ when $x = 3$ and $y = -4$.

- [A] 43
- [B] -7
- [C] 23
- [D] -23
- [E] 7

15. Simplify $y^4 (y^2)^3$

- [A] y^9
- [B] y^{10}
- [C] y^{11}
- [D] y^{20}
- [E] y^{24}

12. الجذر التربيعي الموجب للعدد 190 هو بين:

- [A] 10 و 11
- [B] 11 و 12
- [C] 12 و 13
- [D] 13 و 14
- [E] 50 و 100

13. أوجد حل المعادلة
 $6x - 8 = x + 12$, $x \in \mathbb{N}$

- [A] $x = 4$
- [B] $x = 6$
- [C] $x = 5$
- [D] $x = 3$
- [E] $x = 20$

14. أوجد قيمة $5x - 2y$ عندما $x = 3$ و $y = -4$

- [A] 43
- [B] -7
- [C] 23
- [D] -23
- [E] 7

15. ببسط $y^4 (y^2)^3$

- [A] y^9
- [B] y^{10}
- [C] y^{11}
- [D] y^{20}
- [E] y^{24}

16. Which of the following is **NOT** a factor of 28?
- [A] 12
[B] 7
[C] 14
[D] 28
[E] 1
17. Which of the following is **NOT** a multiple of 3?
- [A] 26
[B] 18
[C] 15
[D] 21
[E] 168
18. The angle of measure 123° is:
- [A] Acute
[B] Obtuse
[C] Right
[D] Straight
[E] Reflex
19. The mean (average) of 47, 63, 78, 92 is:
- [A] 85
[B] 80
[C] 75
[D] 70
[E] 65
16. أي الأعداد التالية ليس عاملاً من عوامل العدد 28?
- [A] 12
[B] 7
[C] 14
[D] 28
[E] 1
17. أي الأعداد التالية الأعداد ليس من مضاعفات العدد 3?
- [A] 26
[B] 18
[C] 15
[D] 21
[E] 168
18. الزاوية 123° تكون:
- [A] حادة
[B] منفرجة
[C] قائمة
[D] مستقيمة
[E] منعكسة
19. المتوسط الحسابي للأعداد: 47، 63، 78، 92 هو:
- [A] 85
[B] 80
[C] 75
[D] 70
[E] 65

20. Express in simplest form:
 $2x^2y + 3ab + 5x^2y - ab$

- [A] $7x^4y^2 - ab$
[B] $7x^4y^2 + 2$
[C] $7x^2y + 2$
[D] $7x^4y^2 + 2ab$
[E] $7x^2y + 2ab$

21. $2xy(4x^3 + 2x^2y - 2y^3) =$

- [A] $8x^4y + 4x^3y^2 - 4xy^4$
[B] $8x^4y + 2x^2y - 2y^3$
[C] $8x^4y + 4x^2y^2 - 4x^2y^4$
[D] $8x^4y + 2x^3y^2 - 2xy^4$
[E] None of the above

22. $x^2 + x - 30 =$

- [A] $(x - 5)(x + 6)$
[B] $(x - 6)(x - 5)$
[C] $(x - 6)(x + 5)$
[D] $(x + 10)(x - 3)$
[E] None of the above

23. Factorize $x^2 - 36$:

- [A] $(x+6)(x-6)$
[B] $(x+6)(x+6)$
[C] $x(x-36)$
[D] $(x-6)^2$
[E] $(x+6)^2$

20. ضع المقدار في أبسط صورة:
 $2x^2y + 3ab + 5x^2y - ab$

- $7x^4y^2 - ab$ [A]
 $7x^4y^2 + 2$ [B]
 $7x^2y + 2$ [C]
 $7x^4y^2 + 2ab$ [D]
 $7x^2y + 2ab$ [E]

21. $2xy(4x^3 + 2x^2y - 2y^3) =$

- $8x^4y + 4x^3y^2 - 4xy^4$ [A]
 $8x^4y + 2x^2y - 2y^3$ [B]
 $8x^4y + 4x^2y^2 - 4x^2y^4$ [C]
 $8x^4y + 2x^3y^2 - 2xy^4$ [D]
كل الإجابات أعلاه غير صحيحة [E]

22. $x^2 + x - 30 =$

- $(x - 5)(x + 6)$ [A]
 $(x - 6)(x - 5)$ [B]
 $(x - 6)(x + 5)$ [C]
 $(x + 10)(x - 3)$ [D]
كل الإجابات أعلاه غير صحيحة [E]

23. حلل $x^2 - 36$

- $(x+6)(x-6)$ [A]
 $(x+6)(x+6)$ [B]
 $x(x-36)$ [C]
 $(x-6)^2$ [D]
 $(x+6)^2$ [E]

24. Pick the largest number.

[A] $-4\frac{4}{5}$

[B] $-5\frac{1}{4}$

[C] $-5\frac{1}{2}$

[D] $-2\frac{4}{5}$

[E] $-2\frac{1}{5}$

25. Find the value of x .

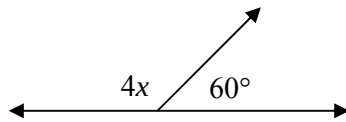
[A] 120°

[B] 40°

[C] 30°

[D] 180°

[E] 90°



26. The value of x is:

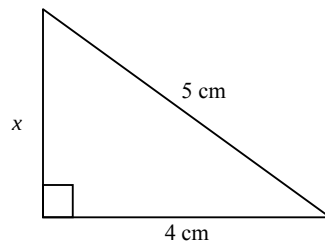
[A] 20 cm

[B] 3 cm

[C] 9 cm

[D] 1 cm

[E] 1.25 cm



24. إختتر العدد الأكبر.

$-4\frac{4}{5}$ [A]

$-5\frac{1}{4}$ [B]

$-5\frac{1}{2}$ [C]

$-2\frac{4}{5}$ [D]

$-2\frac{1}{5}$ [E]

25. أوجد قيمة x .

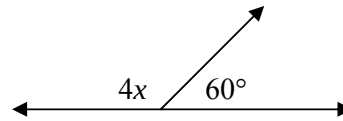
120° [A]

40° [B]

30° [C]

180° [D]

90° [E]



26. أوجد قيمة x .

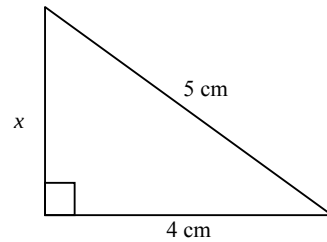
20 cm [A]

3 cm [B]

9 cm [C]

1 cm [D]

1.25 cm [E]



27. Solve the following system of equations:

$$\begin{cases} 3x - 2y = -4 \\ 2x + 2y = -6 \end{cases}$$

[A] $x = 2, y = -1$

[B] $x = -2, y = 1$

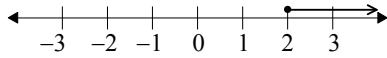
[C] $x = -3, y = -1.5$

[D] $x = -2, y = -2.5$

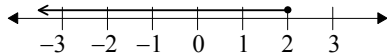
[E] $x = -2, y = -1$

28. Which of the following represents the solution set of the inequality $-2x \leq x - 6$?

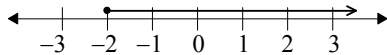
[A]



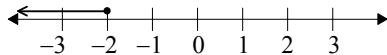
[B]



[C]



[D]



[E] None of the above

27. حل المعادلتين الآتيتين ادناه:

$$\begin{cases} 3x - 2y = -4 \\ 2x + 2y = -6 \end{cases}$$

[A] $x = 2, y = -1$

[B] $x = -2, y = 1$

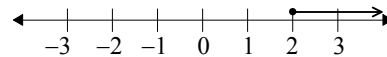
[C] $x = -3, y = -1.5$

[D] $x = -2, y = -2.5$

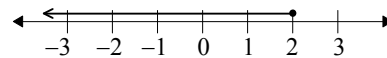
[E] $x = -2, y = -1$

28. أي من التالي يمثل مجموعة حل المتباينة $-2x \leq x - 6$ على خط الأعداد؟

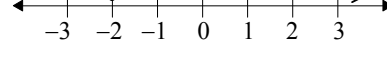
[A]



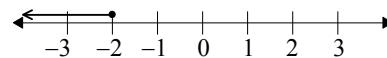
[B]



[C]



[D]



[E] كل الإجابات أعلاه غير صحيحة

الإجابات: Answers:

Question	1	2	3	4	5	6	7	8
Answer	D	C	E	B	D	A	E	B

Question	9	10	11	12	13	14	15	16
Answer	C	A	B	D	A	C	B	A

Question	17	18	19	20	21	22	23	24
Answer	A	B	D	E	A	A	A	E

Question	25	26	27	28
Answer	C	B	E	A