

Admission Exam

Math Practice Questions

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



01. $1.79 + 8.36 =$

[A] 3.13

[B] 9.95

[C] 10.15

[D] 9.115

[E] 10.05

02. $5\frac{2}{5} + 3\frac{1}{5} =$

[A] $2\frac{1}{5}$

[B] $8\frac{3}{5}$

[C] $2\frac{1}{10}$

[D] 2

[E] $1\frac{4}{5}$

03. $-7 - 5 =$

[A] -12

[B] -2

[C] 2

[D] -35

[E] 12

04. $y^3 (y^2)^3 =$

[A] y^9

[B] y^{10}

[C] y^{11}

[D] y^{20}

[E] y^{24}

05. Factorize $x^2 - 5x - 6$ حل

[A] $(x - 2)(x - 3)$

[B] $(x + 2)(x - 3)$

[C] $(x - 6)(x - 1)$

[D] $(x - 6)(x + 1)$

[E] $(x - 5)(x - 6)$

06. $0.53 \text{ km} =$

[A] 530 mm

[B] 5,300 m

[C] 53,000 cm

[D] 5,300 in

[E] 5,300 ft

07. The simplest form of $\frac{4}{14} + \frac{3}{14} =$

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

[B] $\frac{7}{14}$

[C] 1

[D] $\frac{1}{2}$

[E] $\frac{12}{49}$

08. Which of the following is NOT a multiple of 10?

[A] 500

[B] 235

[C] 1050

[D] 5000

[E] 20

09. The value of $\sqrt{8}$ lies between:

[A] 1 and 2

[B] 2 and 3

[C] 3 and 4

[D] 4 and 5

[E] 5 and 6

07. أبسط صورة للمقدار $\frac{4}{14} + \frac{3}{14} =$

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

$\frac{7}{14}$ [B]

1 [C]

$\frac{1}{2}$ [D]

$\frac{12}{49}$ [E]

08. أي من الأعداد التالية ليس من مضاعفات العدد
10؟

500 [A]

235 [B]

1050 [C]

5000 [D]

20 [E]

09. إن قيمة المقدار $\sqrt{8}$ تقع بين:

1 و 2 [A]

2 و 3 [B]

3 و 4 [C]

4 و 5 [D]

5 و 6 [E]

10. 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] $-2\frac{1}{5}$

11. Given that $x = 2$ and $y = -1$,
find the value of $2x - 3y$:

[A] 6

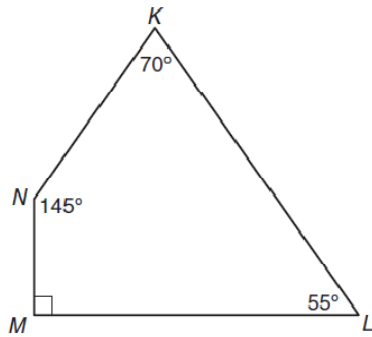
[B] 21

[C] 1

[D] 5

[E] 7

12. In quadrilateral $KLMN$, what type of angle
is $\angle KLM$?



[A] acute

[B] obtuse

[C] right

[D] straight

[E] reflex

10. اختر العدد الأكبر.

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

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

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

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

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

11. إذا علمت أن $x = 2$ و $y = -1$

فأوجد قيمة $2x - 3y$

[A] 6

[B] 21

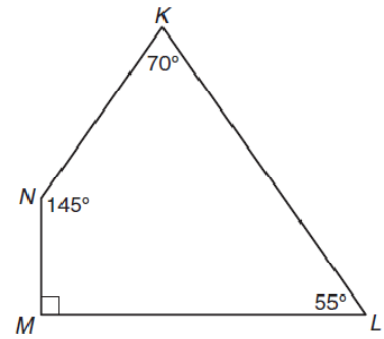
[C] 1

[D] 5

[E] 7

12. حدد نوع الزاوية $\angle KLM$ في الشكل الرباعي

$KLMN$



[A] حادة

[B] منفرجة

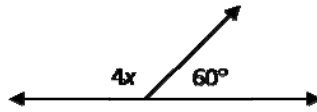
[C] قائمة

[D] مستقيمة

[E] منعكسة

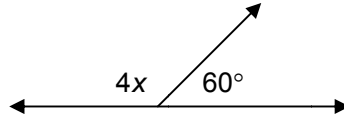
13. Find the value of x .

- [A] 120°
- [B] 40°
- [C] 30°
- [D] 180°
- [E] 90°



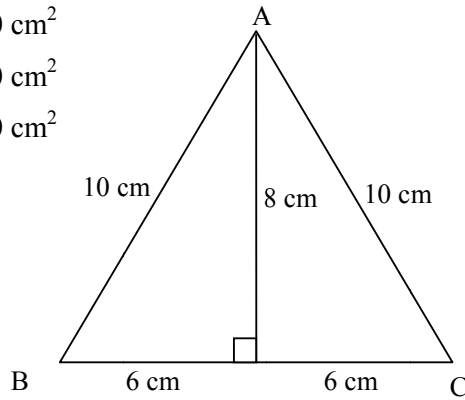
13. أوجد قيمة x

- 120° [A]
- 40° [B]
- 30° [C]
- 180° [D]
- 90° [E]



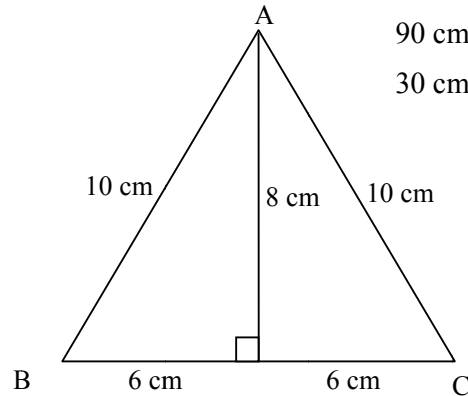
14. The area of triangle ABC is:

- [A] 48 cm^2
- [B] 24 cm^2
- [C] 60 cm^2
- [D] 90 cm^2
- [E] 30 cm^2



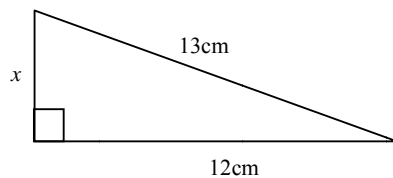
14. مساحة المثلث ABC هي:

- 48 cm^2 [A]
- 24 cm^2 [B]
- 60 cm^2 [C]
- 90 cm^2 [D]
- 30 cm^2 [E]



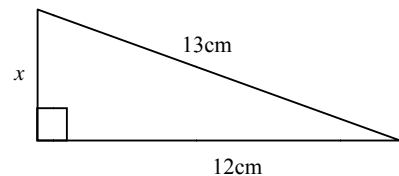
15. Find the value of x .

- [A] 10 cm
- [B] 5 cm
- [C] 25 cm
- [D] 1 cm
- [E] 7 cm



15. أوجد قيمة x

- 10 cm [A]
- 5 cm [B]
- 25 cm [C]
- 1 cm [D]
- 7 cm [E]



16. What is the name of the ordered pair (0, 0)?

- [A] x -axis
- [B] y -axis
- [C] The origin
- [D] xy -plane
- [E] Zero point

17. Solve the following system of equations:

$$\begin{cases} x - y = 7 \\ x + y = 13 \end{cases}$$

- [A] $x = 4, y = 3$
- [B] $x = 5, y = 2$
- [C] $x = 10, y = 3$
- [D] $x = 8, y = 9$
- [E] $x = -2, y = -1$

18. The solution of the equation $3x - 7 = 8$ is:

- [A] $x = 15$
- [B] $x = 3$
- [C] $x = 5$
- [D] $x = 1$
- [E] $x = \frac{1}{3}$

16. ماذا يسمى الزوج المرتب (0,0) ؟

- [A] محور x
- [B] محور y
- [C] نقطة الأصل
- [D] المستوى الإحداثي xy
- [E] النقطة الصفرية

17. حل المعادلتين الآتيتين ادناه:

$$\begin{cases} x - y = 7 \\ x + y = 13 \end{cases}$$

- [A] $x = 4, y = 3$
- [B] $x = 5, y = 2$
- [C] $x = 10, y = 3$
- [D] $x = 8, y = 9$
- [E] $x = -2, y = -1$

18. حل المعادلة $3x - 7 = 8$

- [A] $x = 15$
- [B] $x = 3$
- [C] $x = 5$
- [D] $x = 1$
- [E] $x = \frac{1}{3}$

19. It takes Hamad 4 hours to paint his room. Ali can paint the same room in 6 hours. If they work together, how long will it take them to paint that room?

- [A] 5 hours
- [B] 10 hours
- [C] 2.4 hours
- [D] 12 hours
- [E] 24 hours

20. What is 10% of 6,500 AED?

- [A] 65,000 AED
- [B] 6,400 AED
- [C] 6,600 AED
- [D] 65 AED
- [E] 650 AED

21. An electronic store has five different mobile phone models and three laptop types. In how many ways can a student select a mobile phone and laptop from that store?

- [A] 5 ways
- [B] 3 ways
- [C] 2 ways
- [D] 15 ways
- [E] 20 ways

19. يستطيع حمد طلاء حجرته في 4 ساعات من العمل. ويستطيع علي طلاء نفس الغرفة في 6 ساعات. كم ساعة يحتاج الاثنان معاً لطلاء هذه الغرفة؟

- [A] 5 ساعات
- [B] 10 ساعات
- [C] 2.4 ساعات
- [D] 12 ساعة
- [E] 24 ساعة

20. 10% من 6,500 درهم يساوي

- [A] 65,000 درهم
- [B] 6,400 درهم
- [C] 6,600 درهم
- [D] 65 درهم
- [E] 650 درهم

21. يحتوي متجر لبيع الأدوات الإلكترونية على خمس أنواع مختلفة من أجهزة الهاتف المحمول (الموبايل) وثلاثة أنواع مختلفة من أجهزة الكمبيوتر المحمول (اللابتوب). بكم طريقة يمكن لطالب أن يختار هاتف وكمبيوتر من المتجر؟

- [A] 5 طرق
- [B] 3 طرق
- [C] طريقتان
- [D] 15 طريقة
- [E] 20 طريقة

22. The solution of $-3x < -6$ is:

- [A] $x < 2$
 [B] $x > 2$
 [C] $-2 < x < 2$
 [D] $x > 2$ or $x < -2$
 [E] $x < 3$

23. A bag contains marbles of different colors. Find the total number of marbles in the bag:



Color	Tally
Red	III
Blue	II
Green	
Orange	
Brown	
Yellow	I

- [A] 23
 [B] 20
 [C] 25
 [D] 35
 [E] 16

22. حل المتباينة: $-3x < -6$

- [A] $x < 2$
 [B] $x > 2$
 [C] $-2 < x < 2$
 [D] $x < -2$ أو $x > 2$
 [E] $x < 3$

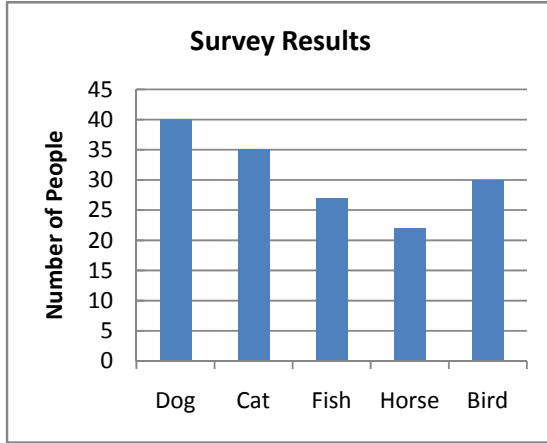
23. يحتوي كيس على كرات صغيرة ملونة. أوجد عدد الكرات في الكيس بالاعتماد على جدول التكرار أدناه.



اللون	التكرار
أحمر	III
أزرق	II
أخضر	
برتقالي	
بني	
أصفر	I

- [A] 23
 [B] 20
 [C] 25
 [D] 35
 [E] 16

24. The graph below shows the results of a survey about the animal that people prefer as a pet.



According to this graph, which statement is true?

- [A] Twice as many people prefer dogs to fish.
[B] Most people do not prefer horses as pets because they are too big to care for.
[C] Many people prefer fish as pets because they are easy to care for.
[D] Five more people prefer cats to birds.
[E] Ten less people prefer birds to horses.

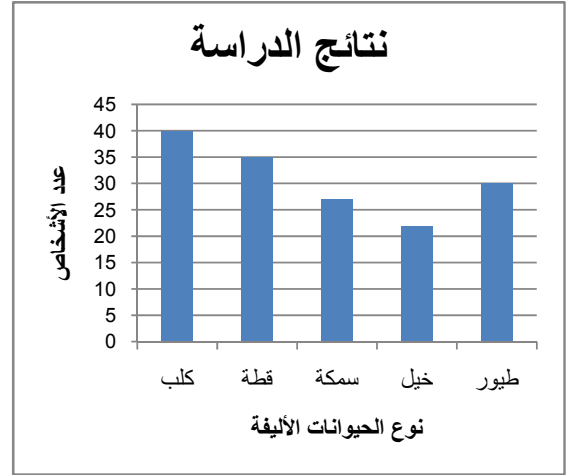
25. A student scored the following marks:

Subject	Islamic	Arabic	English	Math	Science
Score	85	75	78	72	75

Find the arithmetic mean (average).

- [A] 90
[B] 72
[C] 75
[D] 80
[E] 77

24. الشكل أدناه يبين دراسة إحصائية لتفضيل الناس إقتناء بعض الحيوانات الأليفة على غيرها.



أي عبارة تعتبر صحيحة؟

- [A] عدد من يفضلون الكلاب هو ضعف من يفضلون السمك
[B] كثير من الناس لا يفضلون الخيول لأنها كبيرة الحجم
[C] كثير من الناس يفضلون الأسماك لسهولة الإعتناء بها
[D] خمسة أشخاص أكثر يفضلون القطط على الطيور
[E] عشرة أشخاص أقل يفضلون الطيور على الخيول

25. حصل طالب على الدرجات التالية:

المادة	التربية الإسلامية	اللغة العربية	اللغة الإنجليزية	الرياضيات	العلوم
الدرجة	85	75	78	72	75

أوجد المتوسط الحسابي للدرجات.

- [A] 90
[B] 72
[C] 75
[D] 80
[E] 77

ANSWERS

Question	1	2	3	4	5
Answer	C	B	A	A	D

Question	6	7	8	9	10
Answer	C	D	B	B	E

Question	11	12	13	14	15
Answer	E	A	C	A	B

Question	16	17	18	19	20
Answer	C	C	C	C	E

Question	21	22	23	24	25
Answer	D	B	C	D	E