

G08 Admission Exam

The test is in three sections:

<u>Section I</u> is for Mathematics and 45 mins duration (Calculators are **NOT** allowed)

<u>Section III</u> is for English Language and 45 minutes duration <u>Section III</u> is for Arabic and 30 minutes duration



G08 Sample Admission Exam Mathematics

Learning Outcomes Required for Admission Exam



Exam Specifications	Number of Questions	18
	Type of Questions	Multiple Choice
	Exam Duration	45 minutes
	Calculators	Not Allowed
	Language	Questions are written both in English and Arabic

Learning Outcomes Tested for Entry to Grade 8: Mathematics

The mathematics part of the admission exam is made up of questions that are derived from the below learning outcomes:

- 1. Use order of operations to evaluate complex numerical expressions
- 2. Add, subtract, multiply, and divide mixed numbers and fractions with like and unlike denominators
- 3. Write and solve one-step linear equations using addition, subtraction, multiplication, or division (Extend to two-step linear equation by reasoning)
- 4. Solve and graph one-step linear inequalities
- 5. Simplify simple linear algebraic expressions using the distributive property
- 6. Understand the absolute value of a number
- 7. Operation with integers
 - Add, subtract, multiply, and divide integers
 - Apply integer operations
- 8. Operation with Rational Numbers
 - o Add, subtract, multiply, and divide rational numbers
 - Apply rational number operations (evaluate algebraic expressions, order numerical expressions, and solve real-life problems)
- 9. Proportional Relationships
 - Find unit rates with fractions
 - Write equations of proportional relationships
 - Solve equations and problems involving proportional relationships
- 10. Solve rate and ratio real-life problems
- 11. Solve percent problems
 - o Find percent of a number
 - Understand percent of change (increase/decrease), Tax, Tips and Markups, Discounts, and interest)



Sample Questions for Entry to Grade 8: Mathematics

All questions in the exam will be translated in Arabic as in Question 1 below.

Q2-Q19 in this sample set are only in English for practice.

1. Simplify the expression below:

بسّط التعبير أدناه:

$$-7 + 3 \times 5 - (20 \div 4)$$

- A. 1
- B. 2
- **√** C. 3
 - D. 4
- 2. Evaluate the numerical expression $\frac{12}{20} \frac{1}{4}$.
 - A. 0
 - B. $\frac{1}{5}$
 - C. -5
 - ✓ D. $\frac{7}{20}$



- 3. Evaluate the numerical expression $3\frac{1}{2} + 1\frac{3}{4}$.
 - A. $5\frac{3}{4}$
 - ✓ B. $5\frac{1}{4}$
 - C. $4\frac{1}{2}$
 - D. $5\frac{1}{2}$
- 4. Evaluate the numerical expression: $5\frac{4}{5} 2\frac{7}{10}$.
 - A. $3\frac{3}{10}$
 - B. $3\frac{1}{5}$
- ✓ C. $3\frac{1}{10}$
 - D. $3\frac{3}{5}$
 - 5. What is the value of |2-4|-|-3|+|5|?
 - A. -4
 - ✓ B. 4
 - C. 5
 - D. 6



6. What is the expression -2(3x + 5) + 4x written in simplest form?

A.
$$-x - 10$$

- $\sqrt{}$ B. −2*x* − 10
 - C. -2x 5
 - D. 2x 10
 - 7. A sweater initially costing AED160 is on sale for 15% off. How much should you pay for the sweater?
 - A. AED 130
- ✓ B. AED 136
 - C. AED 140
 - D. AED 142
 - 8. Solve the proportion: $\frac{x}{9} = \frac{16}{4}$
 - A. 12
 - B. 24
 - C. 27
- ✓ D. 36
 - 9. Samer rode his scooter 2 miles in 30 minutes. At this rate, how far would he ride in 60 minutes?
 - A. 2.5 miles
 - B. 3 miles
 - C. 3.5 miles
- ✓ D. 4 miles



10. Which of the below statements is/are true?

I.
$$|-11| = 11$$
.
II. $-(-2) = 2$.

III.
$$-(-2) = 2$$
.
III. $\left(-\frac{4}{3}\right)\left(-\frac{9}{6}\right) = \frac{3}{2}$.

- A. I and III Only.
- B. II and III Only.
- ✓ C. I and II Only.
 - D. I, II, and III.

11. What is the solution to the below inequality?

$$4y > -32$$

A.
$$y > -9$$

✓ B.
$$y > -8$$

C.
$$y > 8$$

D.
$$y < 8$$

12. Solve the below equation for x.

$$426 = 113 + x$$



	hmed paid AED 20 for 5 game tickets. Ali paid AED 48 for 12 game tickets. What is the constant of proportionality?
A.	2
B.	3
C.	4
D.	5
Н	he wait time to ride a roller coaster is 20 minutes when 100 people are in line. ow long is the expected wait time when 200 people are in line? Assume the elationship is proportional.
A.	40 minutes
B.	50 minutes
C.	60 minutes
D.	70 minutes
	ara wants to buy new boots that cost AED 90. The sales tax rate is 10%. What is the total cost for the boots?
A.	AED 95
B.	AED 99
C.	AED 100
D.	AED 105



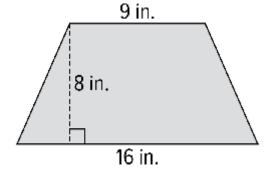
- 16. Evaluate c d if $c = -4\frac{3}{5}$ and d = 1.2.
- ✓ A. -5.8
 - B. -5.6
 - C. 5.7
 - D. 5.8
 - 17. Fatima earned \$325 for working 25 hours last week. What is her hourly rate?
 - A. \$12
- ✓ B. \$13
 - C. \$14
 - D. \$15
 - 18. The graph shows the total number of markers in 1, 2, 3, and 4 boxes of markers. What is the unit rate?







- 19. The expression $\frac{h}{2}(b_1 + b_2)$ gives the area of a trapezoid with height h and bases b_1 and b_2 . Use the expression to find the area of the trapezoid shown.
 - A. $96 in^2$
 - ✓ B. $100 in^2$
 - C. $192 in^2$
 - D. $200 in^2$





G08 Sample Admission Exam English

Learning Outcomes Required for Admission Exam



	Two reading passages and 15-20 reading questions. Types of questions include: Skimming Scanning Inferring/deducing meaning from context Finding supporting details		
Exam Specifications	There will be 10-15 language usage/grammar questions. Grammar areas to be assessed may include: • Adjectives – comparative, – use of than and definite article • Adjectives – superlative – use of definite article • Adverbial phrases of time, place and frequency – including word order • Adverbs of frequency • Articles – with countable and uncountable nouns • Countables and Uncountables: much/many • Future Time (will and going to) • Gerunds • Going to Imperatives • Modals – can/could • Modals – have to Modals – should • Past continuous Past simple • Phrasal verbs – common Possessives – use of 's, s' • Prepositional phrases (place, time and movement) • Prepositions of time: on/in/at Present continuous • Present continuous for future Present perfect • Questions • Verb + ing/infinitive: like/ want-would like • Wh-questions in past Zero and 1st conditional		
	Exam Duration	45 minutes	
	Below are sample questions based on the exam.		

READING

Michael Phelps

Michael Phelps (born June 30, 1985) is an American swimmer. He has won the most Olympic medals in history. He has eighteen gold medals. In the year 2000, he became the youngest sportsman to compete in the Olympic Games.

Phelps comes from Maryland, USA. His father, Fred, was a police officer who used to *keep fit* and go to the gym every other day. His mother, Debbie, taught Mathematics to grade 8 students. Phelps is the youngest child. He has two sisters: Whitney (born in 1978) and Hilary (born in 1980). Phelps started swimming in 1992, when he was 7.

Phelps swims every day and eats healthy food. His books: *Beneath the Surface: My Story* (2004) and *No Limits: The Will to Succeed* (2008) are about his life. In his free time, he works with children who are interested in swimming. Sport is a very important part of his life.

- How old was Michael when he started swimming? 7
- 2. What days does Michael swim? Every day
- 3. What job did Michael's mum do? She was a teacher.
- 4. What does Michael do in his free time? He works with children.
- 5. How many books has Michael written? 2
- 6. Is the following statement True (T), False (F) or Not given (NG).

 Michael's sisters like swimming too. NG
- 7. Is the following statement True (T), False (F) or Not given (NG).

Michael has two sisters that are older than him. ____True___



LANGUAGE USAGE

- 8. Reema has a black car. She loves to drive __it__ from Abu Dhabi to Dubai.
- 9. Fatima has one child. Sara has five ___children__: Three girls and two boys.
- 10. Yesterday, Ahmed __ate__ a large burger and some french-fries.
- 11. ___Where___ are you going now? I'm going to library.
- 12. ___That's__ my favorite color.
- 13. She___has lived ___in London since 2010.
- 14. I'm <u>always</u> late for work. I never wake up on time.
- 15. I hope they ___are coming__ to my wedding next week.



G08 Sample Admission Exam Arabic

Learning Outcomes Required for Admission Exam



السُّؤالُ الأوَّل/ القراءة التحليلية: اقْرَأ النَّصَّ التالي بعنوان: (لغة الابْتِسامَة) قراءةً مُتَمَعِّنَةً، شُّ أَجِبْ عن الأَسْئِلَةِ المتعلقة به:.

- 1. الا بْتِسامَةُ لُغَةٌ يَفْهَمُهَا العالَمُ أَجْمَعُ، لُغَةٌ سَهْلَةٌ وَشَفّافَةٌ، بَسيطَةٌ وَمُعَبِّرَةٌ، مِنْ غَيْرِ تَكْلِفَةٍ مادِّيَّةٍ، وَهِيَ تَعْبيرٌ يَظْهَرُ عَلَى الوَجْهِ بِانْفراجٍ بَسيطٍ عَلى جانِيَ الفَمِ، تَخْدُثُ في طَرْفَةِ عَيْنٍ، وَلَكِنَّ أَثَرَها يَدُومُ طَويلاً، وَهِيَ حَرَكَةٌ بَسيطَةٌ، إلّا أَنَّ هَا مَدْلولاتٍ وَأَبْعاداً عَميقَةً جِدّاً، فَهِيَ تَغْتَزل كَثيراً مِنَ المُفْرَداتِ العاطِفِيَّةِ. وَتُعَدُّ الا بْتِسامَةُ رَسولاً سَيطةً، إلّا أَنَّ هَا مَدْلولاتٍ وَأَبْعاداً عَميقَةً جِدّاً، فَهِي تَغْتَزل كثيراً مِنَ المُفْرَداتِ العاطِفِيَّةِ. وَتُعَدُّ الا بْتِسامَةُ رَسولاً صَادِقاً إلى قُلوبٍ مَنْ حَوْلَنا، خاصَّةً تِلْكَ الَّتِي تَخْرُجُ مِنْ أَعْماقِنا، تِلْكَ القادِرَة عَلَى تَغْييرِ جانِبِ الحَياةِ السَّيّئِ، وَبَثِ الأَمَل وَالتَّفَاؤُلِ فيمَنْ حَوْلَنا، وَقَدْ جَعَلَها رَسُولُنا الكَرِيمُ صَدَقَةً في قَوْلِهِ: "تَبَسُّمُكَ في وَجْهِ أَحِيكَ صَدَقَة".
- 2. وَإِذَا عَرَفْنَا أَنَّ الْإِنْسَانَ هُوَ الْمَخْلُوقُ الوَحِيدُ الَّذِي يَبْتَسِمُ، فَحَرِيٌّ بِنَا أَنْ نُدْرِكَ فَوائِدَ الابْتِسَامَةِ، حَيْثُ يُؤَكِّدُ العُلَمَاءُ أَنَّ لَهَا فَوائِدَ شَتّى، يَعُودُ أَثَرُها عَلَى الفَرْدِ وَالْمُجْتَمَع.
- قَلْ لِلا بُتِسامَةِ تَأْثيراً عَلَى الآخرين؛ فَبِها نَسْتَطيعُ أَنْ غَتْلِكَ قُلُوكِمُمْ، وَثُحُولَ الحُزْنَ إِلَى فَرَحٍ، وَالغَضَبَ إِلَى وَرَحًا، وَقَدْ يُوظِّفُها بَعْضُ النّاسِ لِتَحْقيقِ ما يَصْبونَ إِلَيْهِ: فَبِها يَكْسِبُ المُديرُ مَوَظَّفيهِ، وَالتّاجِرُ زَبائِنَهُ؛ إِذْ مِنْ طَبْعِ البَشُو أَفَمْ يَميلونَ إِلَى الوَجْهِ العَبوسِ، وَالقَوْلِ الغَليظِ، يَقُولُ اللهُ تعالى في كتابِهِ البَشُوشِ، وَيَنْفِرونَ مِنَ الوَجْهِ العَبوسِ، وَالْقَوْلِ الغَليظِ، يَقُولُ اللهُ تعالى في كتابِهِ البَشُو مِنَ الله لِنْتَ هم ولَو كُنْتَ فَظًا غليظَ القلْب لانْفَضُّوا مِنْ حَوْلِك".
- 4. وَلِلا بْتِسامَةِ فَوائِدُ طِبِيَّةُ، وَصِحِيَّةُ؛ فَقَدْ أَكَّدَ الطِّبُّ أَنَّ مَجموعَ العَضَلاتِ الَّتِي يَسْتَخْدِمُها الإِنْسانُ عِنْدَ التَّبَسُّمِ هُوَ أَرْبَعَ عَشْرَةَ عَضَلَةً فَقَطْ، وَعِنْدَ العُبوسِ سَبْعِينَ عَضَلَةً، وَهذا دَليلٌ واضِحٌ عَلى أَهْمِيَّتِها.
- 5. وَهِيَ تَخْفَظُ الصِّحَّةَ النَّفْسِيَّةَ، وَتُخَفِّفُ مِنْ ضَغْطِ الدَّمِ، وَتُقَلِّلُ مِنَ احْتِمالِيَّةِ الإِصابَةِ بِالجَلْطاتِ القَلْبِيَّةِ، وَعَلَّوْ مَنْ مَناعَةِ الجِسْمِ، وَتُحَسِّنُ مِنْ أَداءِ جِهازِ الغُدَدِ الصَّمّاءِ، وَعَلاوَةً عَلَى ذَلِكَ، فَإِضَّا سِلاحٌ فَعَالٌ ضِدَّ التَّجاعيدِ، حَيْثُ تَزيدُ مِنْ نَضارَةِ الوَجْهِ، وَإِشْراقِهِ.
- 6. وَلَمَا فَوائِدُ عَقْلِيَّةٌ أَيْضاً؛ فَهِيَ تَزيدُ مِنَ النَّشاطِ العَقْلِيِّ، وَالتَّرْكيزِ الذِّهْنِیِّ، وَتُحَقِّقُ الاسْتِقْرارَ، وَالهُدوءَ النَّفْسِيَّ، وَتُصَفِّي الذِّهْنَ، وَتَجُعَلُ العَقْلَ الباطِنَ يُؤَثِّرُ عَلى العَقْلِ الظَّاهِرِ، دونَ إِدْراكِ صاحِبِهِ.



- 7. وَهُناكَ فَوائِدُ اجْتِماعِيَّةٌ رائِعَةٌ، حَيْثُ تُعَدُّ سَبَباً مِنْ أَسْبابِ السَّعادَةِ، وَالنَّجاحِ، وَتُقَوِّي الرَّوابِطَ الاجْتِماعِيَّة، وَتُسْهِمُ فِي حَلِّ الْمُشْكِلاتِ، وَكَأْهَا المِفْتاحُ السِّحْرِيُّ لِلقُلوبِ المُغْلَقَةِ؛ فَتُقَلِّلُ مِنَ الأَحْقادِ، وَتُزيلُ غُبارَ التَّناحُرِ، وَتُسْهِمُ فِي حَلِّ الْمُشْكِلاتِ، وَكَأْهَا المِفْتاحُ السِّحْرِيُّ لِلقُلوبِ المُغْلَقَةِ؛ فَتُقَلِّلُ مِنَ الأَحْقادِ، وَتُزيلُ غُبارَ التَّناحُرِ، وَتَعْرِبُ وَساوسَ الشَّحْناءِ.
 - 8. ابْتَسِمْ، وَدَع الكَآبَةَ، وَاسْتَرْجِعْ مَرَحَ الحَيَاةِ، فَما أطالَتِ الكَآبَةُ عُمُراً، وَما قَصَّرَ الأعْمارَ طولُ الابْتِسامِ.

في ضَوْءِ فَهمِكَ للنّصّ، اخْتَرِ الإجابةَ الصَّحيحةَ:

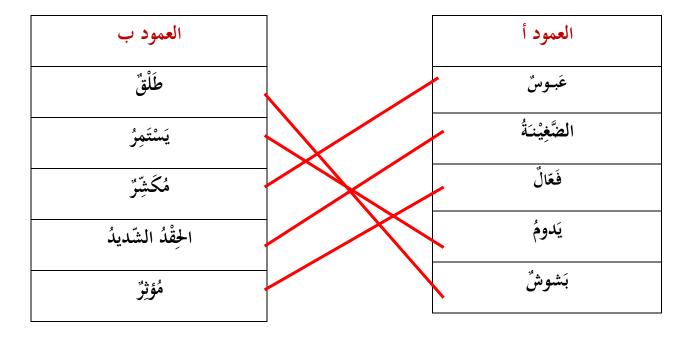
1_ بالاستنادِ إلى النّص السابق، الفقرة التي تُعرّف "الابتسامة" هي:						
الثالثة	الرابعة	الثانية	الأولى			
2- "أثر الابتسامة في التحصيل العلمي" وردت هذه الفكرة في الفقرةِ:						
السابعة	الثامنة	السادسة	الخامسة			
 -3 بالاستناد إلى الفقرة السابعة، تعالج الابتسامة مشكلة واحدٍ من هؤلاء الأشخاص: 						
شخص يعاني من ضعف	شخص يشكو	شخص يفشل في تقوية	شخص يريد أن يحفظ			
مناعة الجسم	تجاعيد الوجه وقلة نضارته	الروابط الاجتماعية	قصيدة شعريّة			
4- الأسلوب في الفِقْرةِ الرّابعةِ، هو أسلوب:						
إنشائي وخبري	خبري فقط	إنشائي في معظمه	إنشائي فقط			
5- بالاستناد إلى الفقرة الخامسة، يعود ضَمير (الهاء) في كَلمةِ (فَإِنَّمًا) في العبارة " فَإِنَّمًا سِلاحٌ فَعّالٌ ضِدَّ						
التَّجاعيدِ":						
مَناعَةِ الجِسْمِ	الغُدَدِ الصَّمّاءِ	الابْتِسامَة	التجاعيد			



 الاستناد إلى الفقرة الثالثة، ما العلاقة بين هاتين الجملتين: 						
" إِذْ مِنْ طَبْعِ البَشَرِ أَضَّمْ يَميلونَ إِلَى الوَجْهِ البَشوشِ، وَيَنْفِرونَ مِنَ الوَجْهِ العَبوسِ ":						
ترادُف	ڠاثُل	مقابلة	تبايُن			
7- يصنّفُ هذا النَّصُّ على أنّه نصّ:						
قَصَصي	وظيفيّ	إقناعيّ	معلوماتي			
8 الجملةُ التي وَرَدَ فيها التَّعبير المجازيّ:						
الابْتِسامَة تُحَسِّنُ	الابْتِسامَة تَحْفَظُ	وَلِلابْتِسامَةِ فَوائِدُ طِبِّيَّةٌ	الابْتِسامَة سلاحٌ فَعَالُ			
أداءِ جِهازِ الغُدَدِ	الصِّحَّةَ النَّفْسِيَّةَ		ضِدَّ التَّجاعيدِ			
الصَّمّاءِ						
9- بالاستناد إلى الفقرة الرّابعة أنسب علامة ترقيم تَضَعُها في مربّع العبارة: يَقُولُ اللهُ تعالى في كتابِهِ العزيزِ 🗵						
"فَبِما رَحْمَةٍ مِنَ الله لِنْتَ لهم ولَو كُنْتَ فَظًّا غليظَ القلْبِ لانْفَضُّوا مِنْ حَوْلِك":						
!	:	_	:			
10 - الفقرة التي تدل على ثقافة الكاتب الدينيّة:						
الأولى + الثالثة	الثانية	الثالثة	الأولى			



السُّؤالُ الثَّاني: معاني المفردات: صل بين الكلمة في العمود (أ) ومعناها من العمود (ب) فيما يلي:



انْتَهَتِ الْأسئلةُ، مَعَ دُعائنا لَكُمْ بِالتَّوْفِيقِ وِالتَّمَيُّزِ