

**ULANGKAJI FORM 3**

- 1 Evaluate

Nilaikan

$$3.2 \left( 8 - \frac{1}{2} \right) \div \frac{3}{2} \times 7.2$$

A  $115\frac{1}{5}$

B  $17\frac{23}{25}$

C  $2\frac{2}{9}$

D  $6\frac{2}{9}$

- 2 List five common multiples for 8 and 14.

Senaraikan lima gandaan sepunya bagi 8 dan 14.

A 8, 16, 24, 32, 40

B 14, 28, 42, 56, 70

C 56, 70, 78, 92, 100

D 56, 112, 168, 224, 280

3  $\left( \sqrt{12\frac{1}{4}} + \sqrt[3]{0.001} \right)^2$

A 0.36

B 1.296

C 3.6

D 12.96

- 4 Which of the following is a linear equation in one variable?

Yang manakah antara berikut merupakan persamaan linear dalam satu pembolehubah?

A  $pq - 3 = 9$

B  $\frac{k}{3} + 1 = 8$

C  $\frac{x}{3} + y = 7$

D  $c^2 + 1 = 5$

- 5 Diagram 1 below represents two simultaneous linear inequalities on a number line.  
*Rajah 1 di bawah menunjukkan dua ketaksamaan linear pada suatu garis nombor.*

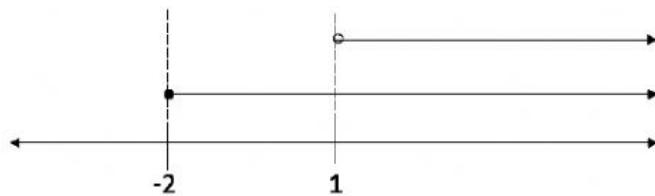


Diagram 1

*Rajah 1*

Which inequality represents the common part of both inequalities?

*Ketaksamaan yang mana satu mewakili bahagian sepunya bagi kedua-dua ketaksamaan?*

- A  $x \geq -2$
- B  $x > -2$
- C  $x \geq 1$
- D  $x > 1$

- 6 Calculate the perimeter of the following rectangle in Diagram 2.  
*Hitung perimeter segi empat tepat di dalam Rajah 2 berikut.*

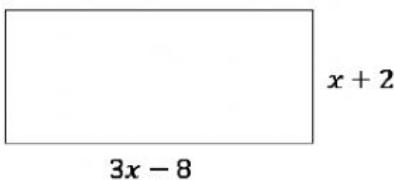


Diagram 2

*Rajah 2*

- A  $8x - 12$
- B  $8x + 12$
- C  $4x - 6$
- D  $4x + 6$

- 7 In the Diagram 3 below,  $ABC$  is a straight line.  
*Dalam Rajah 3 di bawah,  $ABC$  adalah garis lurus.*

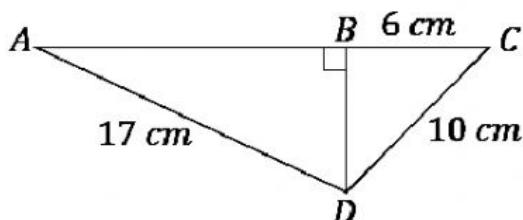


Diagram 3  
*Rajah 3*

Find the total area of the diagram.

*Kira jumlah luas rajah tersebut.*

- A 84
- B 92
- C 98
- D 128

- 8 Given that  $Q = \{x : x \text{ is a two digit number such that the sum of its digits is } 10\}$ . Find  $n(Q)$ .

*Diberi  $Q = \{x : x \text{ adalah nombor dua digit dan mana hasil tambah digit adalah } 10\}$ . Cari  $n(Q)$ .*

- A 11
- B 10
- C 9
- D 8

- 9 Diagram 4 shows a sequence of numbers.

*Rajah 4 menunjukkan suatu jujukan nombor.*

84, 86,  $p$ , 84, 80, 82,  $q$ , 80

Diagram 4

*Rajah 4*

The value of  $p$  and  $q$  is

*Nilai bagi  $p$  dan  $q$  adalah*

- A  $p = 88 ; q = 84$
- B  $p = 88 ; q = 78$
- C  $p = 82 ; q = 84$
- D  $p = 82 ; q = 78$

- 10 Factorize completely

*Faktorkan selengkapnya*

$$3x^2 - 147$$

- A  $(x + 7)(x - 7)$
- B  $3(x + 7)(x - 7)$
- C  $(3x + 7)(x - 7)$
- D  $(x + 7)(3x - 7)$

- 11** In Diagram 5,  $PQ$  is a straight line on a Cartesian Plane.  
*Dalam Rajah 5,  $PQ$  adalah garis lurus pada Satah Cartes.*

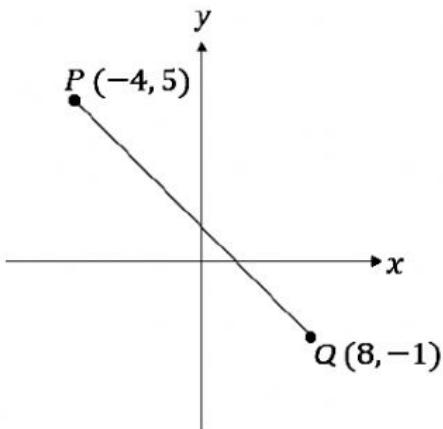
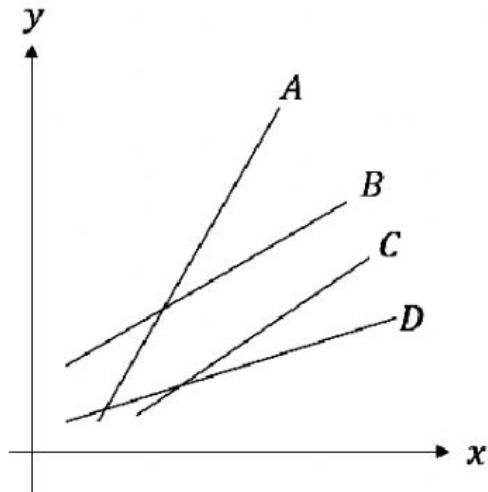


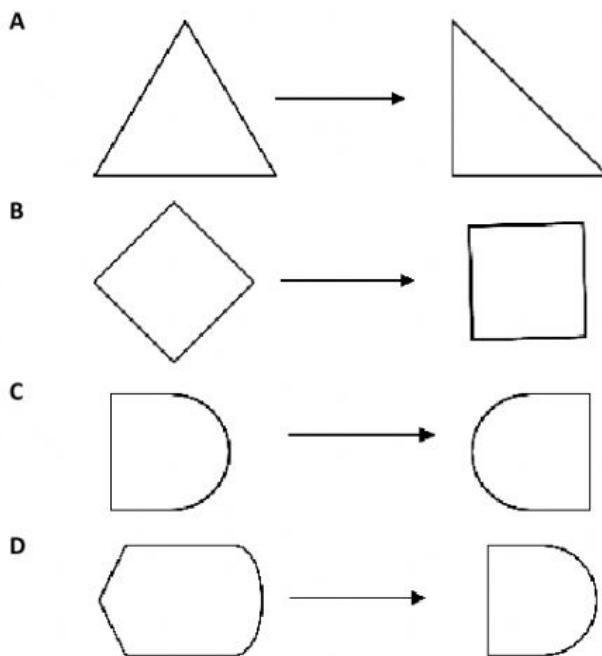
Diagram 5  
*Rajah 5*  
Find the midpoint of  $PQ$ .  
*Cari titik tengah  $PQ$ .*

- A** (6, 3)
- B** (6, 2)
- C** (2, 2)
- D** (2, 3)

- 12** Which of the following straight line has the highest gradient?  
*Garis lurus yang manakah mempunyai kecerunan yang paling tinggi?*



- 13** Which of the following shows a transformation?  
*Yang manakah antara berikut menunjukkan penjelmaan?*



- 14** Determine the median of the following data:  
*Tentukan median bagi data berikut:*

4,3,2,0,0,3,5,6,7

- A 0  
B 2  
C 3  
D 4

- 15** Which of the following is stated correctly in standard form?  
*Yang manakah antara berikut dinyatakan dengan betul dalam bentuk piawai?*

	<b>Number</b> <i>Nombor</i>	<b>Standard form</b> <i>Bentuk piawai</i>
A	0.0665	$6.65 \times 10^2$
B	0.800	$8.00 \times 10^{-1}$
C	93.08	$9.308 \times 10^{-1}$
D	3044	$30.44 \times 10^2$

- 16** Mr. Emanuel obtained a personal loan of RM25000 from Bank Luhur with an interest rate of 4% per annum. The repayment period is 10 years. What is the monthly instalment to be paid by Mr. Emanuel?

*En. Emanuel memperolehi pinjaman peribadi sebanyak RM25000 daripada Bank Luhur dengan kadar faedah 4% setahun. Tempoh bayaran balik adalah selama 10 tahun.*

*Berapakah bayaran ansuran bulanan yang akan dibayar oleh En. Emanuel?*

- A** RM291.00
- B** RM291.67
- C** RM292.00
- D** RM292.67

- 17** Which of the following angles are convert correctly to degree and minutes?

*Yang manakah antara sudut berikut ditukar dengan betul menjadi darjah dan minit?*

Angles in degree <i>Sudut dalam darjah</i>		Angles in degree and minute <i>Sudut dalam darjah dan minit</i>	
<b>A</b>	16.9°	16° 55'	
<b>B</b>	32.7°	32° 40'	
<b>C</b>	60.5°	60° 29'	
<b>D</b>	72.3°	72° 18'	

- 18** Calculate the value of  $x$  in the Diagram 6 below.

*Hitung nilai  $x$  dalam Rajah 6 di bawah.*

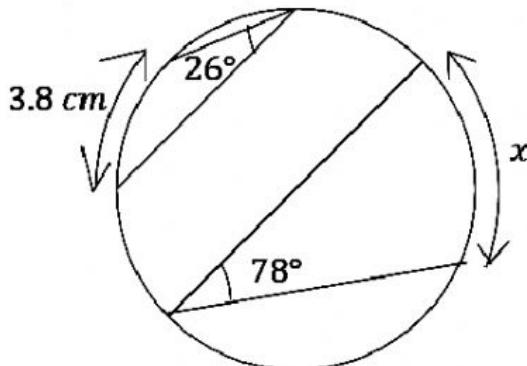


Diagram 6

Rajah 6

- A** 3.8
- B** 7.6
- C** 11.4
- D** 15.2

- 19** The Diagram 7 below shows a square  $PQRS$ .  
*Rajah 7 di bawah menunjukkan segi empat sama  $PQRS$ .*

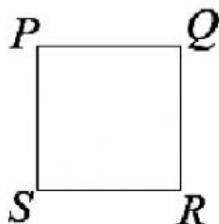


Diagram 7  
*Rajah 7*

Determine the locus of point  $Y$  which is always equidistant from the point  $P$  and point  $R$ .  
*Tentukan lokus bagi titik  $Y$  yang sentiasa berjarak sama dari titik  $P$  dan titik  $R$ .*

- A**  $PR$
  - B**  $QS$
  - C**  $PS$
  - D**  $SR$
- 20** Determine the  $y$ -intercept of the straight line  $-3y = -3x + 15$   
*Tentukan pintasan- $y$  bagi garis lurus  $-3y = -3x + 15$*
- A**  $-15$
  - B**  $-5$
  - C**  $5$
  - D**  $15$