

MODUL DIAGNOSTIK JIHAD MATEMATIK

ARAHAN : Sila jawab semua soalan **tanpa** menggunakan kalkulator.

INSTRUCTIONS: Please answer all questions **without** using a calculator.

BAHAGIAN A / PART A

SUB TOPIK : INTEGER SUB TOPIC : INTEGER		
Soalan / Question		
1.	Tentukan sama ada nombor yang berikut ialah integer atau bukan integer . <i>Determine whether the following numbers are integers or non-integers.</i>	Jawapan / Answer
(a)	200	
(b)	-16	
(c)	0	
(d)	$\frac{3}{4}$	
(e)	10.01	
(f)	-36.57	
2.	Nombor negatif 17 ditulis sebagai _____. <i>Negative 17 is written as _____.</i>	
3.	Tulis satu nombor integer positif. <i>Write a positive integer number.</i>	
4.	12 m di bawah aras laut ditulis sebagai _____. <i>12 m below the sea level is written as _____.</i>	
5.	Nyatakan integer yang terbesar dalam senarai berikut: <i>State the largest integer in the following list:</i> -6, 8, 0, -4, 15, -30	

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SUB TOPIK : OPERASI ASAS MELIBATKAN INTEGER*SUB TOPIC : BASIC OPERATIONS INVOLVING INTEGER*

Soalan <i>Question</i>		Jawapan <i>Answer</i>	Soalan <i>Question</i>		Jawapan <i>Answer</i>
1.	$8 + (+4) =$		6.	$4 \times (-3) =$	
2.	$(-12) + (-5) =$		7.	$(-10) \times 2 =$	
3.	$6 + (-3) =$		8.	$(-3) \times (-3) =$	
4.	$(-5) - (-3) =$		9.	$16 \div (-2) =$	
5.	$7 - (-7) =$		10.	$(-8) \div (-4) =$	

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SUB TOPIK : PECAHAN POSITIF DAN NEGATIF*SUB TOPIC : POSITIVE AND NEGATIVE FRACTION*

Soalan <i>Question</i>		Jawapan <i>Answer</i>	Soalan <i>Question</i>		Jawapan <i>Answer</i>
1.	$\frac{1}{4} + \frac{2}{4} =$		6.	$\frac{1}{5} - \frac{3}{10} =$	
2.	$-\frac{1}{5} + \frac{3}{5} =$		7.	$\frac{1}{3} + \frac{1}{2} =$	
3.	$\frac{2}{6} + \left(-\frac{1}{6}\right) =$		8.	$\frac{5}{4} \times \frac{1}{3} =$	
4.	$-\frac{1}{7} - \frac{5}{7} =$		9.	$\frac{1}{5} \div \frac{1}{3} =$	
5.	$\frac{1}{2} + \frac{1}{4} =$		10.	$-\frac{1}{7} \times \frac{5}{4} =$	

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SUB TOPIK : PERPULUHAN POSITIF DAN NEGATIF SUB TOPIC : POSITIVE AND NEGATIVE DECIMAL					
Soalan <i>Question</i>		Jawapan <i>Answer</i>	Soalan <i>Question</i>		Jawapan <i>Answer</i>
1.	$1.5 + 2.2 =$		6.	$-1.3 + 1.3 =$	
2.	$2.0 - (-3.0) =$		7.	$2.5 + (-1.2) =$	
3.	$-5.1 - 2.4 =$		8.	$-4.0 - 4.0 =$	
4.	$4.5 - 7.2 =$		9.	$1.8 + (-1.2) =$	
5.	$8.36 + 3.89 =$		10.	$2.2 - 1.3 =$	

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SUB TOPIK : NOMBOR NISBAH SUB TOPIC: RATIO NUMBER					
Soalan <i>Question</i>		Jawapan <i>Answer</i>	Soalan <i>Question</i>		Jawapan <i>Answer</i>
1.	$\frac{2}{3} \times (-0.9) =$		6.	$-60 \div (-0.3) =$	
2.	$1\frac{1}{4} \div 2 =$		7.	$0.62 \times 5 =$	
3.	$-4.83 + \frac{5}{10} =$		8.	$16 - 10\frac{3}{5} =$	
4.	$1.2 - \frac{7}{10} =$		9.	$3.71 - 2 =$	
5.	$23 + (-10.8) =$		10.	$16 \times \left(-\frac{7}{8}\right) =$	

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BAHAGIAN B / PART B

Soalan / Question		Jawapan / Answer
1.	Tentukan nilai x pada garis nombor di bawah. <i>Determine the value of x on the number line below.</i> 	
2.	Senaraikan semua nombor integer di antara -3 dan 2. <i>List all the integer numbers between -3 and 2.</i>	
3.	Susun perpuluhan berikut mengikut tertib menaik. <i>Arrange the following decimals in ascending order.</i> $-1.2, -0.02, 1.2, -1.0, 2.4$	
4.	Bandingkan pecahan di bawah menggunakan simbol yang sesuai. <i>Compare the fractions below using suitable symbols.</i> $\frac{2}{9} \square \frac{5}{9}$	
5.	Lengkapkan kotak jawapan dengan pecahan yang sesuai. <i>Complete the answer's box using the suitable fraction.</i> $-\frac{3}{7} + \frac{2}{14} = \boxed{\frac{\quad}{\quad}} \div -\frac{1}{2}$	
6.	Hitung nilai bagi <i>Calculate the value of</i>	Jawapan / Answer
(a)	$-5 \times (-2 + 3) =$	
(b)	$4 + (-2) \times (-6) =$	
(c)	$\frac{(-6) + (-4)}{(-2) - 3} =$	

(d)	$\frac{2}{3} \times \left[\frac{7}{8} + \left(-\frac{5}{16} \right) \right] =$	
(e)	$4.2 - 7.5 \times 0.2 =$	
(f)	$-2.2 \times [3.0 - (-2.0)] =$	
(g)	$-1\frac{1}{9} + \frac{4}{9} \times 0.25 =$	
(h)	$28 \div \frac{7}{52} + 12.1 =$	
(i)	$4.2 \times 3\frac{1}{3} - 3.8 =$	
(j)	$8 + \left(-1\frac{1}{4} \right) \times 2.4 =$	

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BAHAGIAN C / PART C

Soalan / Question		Jawapan / Answer
1.	Sebuah kapal selam berada pada kedalaman 200 m di bawah paras laut. Kapal selam itu turun 70 m dan kemudiannya naik 140 m. Tulis situasi berikut dalam bentuk ayat matematik. <i>A submarine is at depth of 200 m below sea level. The submarine descended 70 m and then ascended 140 m. Write the following situation to the mathematical sentences.</i>	
2.	Selesaikan. <i>Solve the following.</i>	Jawapan / Answer
(a)	Pada bulan Mac, kebun kelapa milik Encik Amin telah mengeluarkan 250 biji kelapa. Pengeluaran dalam bulan April adalah 50 biji lebih daripada bulan Mac. Pengeluaran dalam bulan Mei pula adalah dua kali ganda pengeluaran pada bulan April. Hitung jumlah pengeluaran kelapa dalam tiga bulan itu. <i>In March, Mr. Amin's coconut plantation produced 250 coconuts. The production in April was 50 more than in March. The production in May was double to the production in April. Calculate the total production of coconuts in those three months.</i>	
(b)	Dua bekas masing-masing mengandungi $\frac{3}{8}$ dan $1\frac{1}{4}$ liter air. Hitung beza isipadu air antara kedua-dua bekas tersebut. <i>One container holds $\frac{3}{8}$ litres of water while another holds $1\frac{1}{4}$ litres. Calculate the difference in the volume of water between the two containers.</i>	
(c)	Aini menerima upah sebanyak RM0.20 untuk sebiji karipap yang terjual. Aini berjaya menjual 100 biji karipap sehari. Kira jumlah upah yang dikumpul oleh Aini dalam tempoh 4 hari. <i>Aini receives a wage of RM0.20 for each curry puff sold. Aini manages to sell 100 curry puffs a day. Calculate the total Aini's wage for 4 days.</i>	
(d)	Azura mempunyai wang simpanan sebanyak RM200. Dia menderma $\frac{1}{4}$ daripada wang simpanannya kepada badan kebajikan. Kemudian, dia membeli sebuah beg sekolah berharga RM49.90. Hitung baki wang yang Azura masih ada. <i>Azura has RM200 in savings. She donates $\frac{1}{4}$ from his savings to charity. Later, she bought a school bag for RM49.90. Calculate the balance she still has.</i>	

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