

Significant Number / Angka Bererti

Properties used as a guide to round off a number to the required number of significant figures Properties	Examples
1. All non-zero digits are significant	42 (2 significant figures) 62.29 (4 significant figures)
2. Zeros between non-zero digits are significant	2.08 (3 significant figures) 2006 (4 significant figures)
3. Zero following a non-zero digit in a whole number may or may not be significant. It depends on how the estimation is made <i>*All zeros after any non-zero digit in a whole number are not significant unless stated otherwise</i>	20 (1 significant figures) 200 (1 significant figures) 2000 (2 significant figures) 2000 (3 significant figures)
4. For decimals less than 1, zeros preceding the first non-zero are not significant <i>*All zeros before any non-zero digit in a decimal point are not significant</i>	0.8 (1 significant figures) 0.08060 (4 significant figures)
5. Zeros following a non-zero digit after the decimal point are significant <i>*All zeros after any non-zero digit in a decimal are significant</i>	3.60 (3 significant figures) 26.00 (4 significant figures)



Example of Significant Figure

Understanding significant number. Learning from example / [Memahami konsep angka bererti](#)

1 Significant Number/ 1Angka bererti	2 Significant Number/ 1 Angka bererti
1. 100	1. 2300
2. 200	2. 24
3. 3000	3. 0.34
4. 0.4	4. 0.0045
5. 0.004	5. 0.011

3 Significant Number/ 3 Angka bererti	4 Significant Number/ 3 Angka bererti
1. 145	1. 2367
2. 299	2. 247800
3. 355000	3. 0.3478
4. 0.456	4. 0.004567
5. 0.00421	5. 0.01143

Complete the chart below/ [Bundarkan jawapan anda kepada angka bererti](#)

Number	1 Significant Figure 1 Nombor Bererti	2 Significant Figure 2 Nombor Bererti	3 Significant Figure 3 Nombor Bererti
2450			
134.56			
295			
0.0395			
0.1940			
134023			
1399			
2350			
0.3947			
0.003434			



HOTS Questions

Question 1

Operations involving a few numbers and significant figures

Find the value of each of the following, stating your answer correct to 2 significant figures. **Bundarkan jawapan kepada 2 angka bererti**

Question / Soalan	
$7.5 + 0.48 \div 0.04$	
$0.06 \times 0.1 + 35.6 \div 50$	
$6.84 \div 30 + 3.75$	
$5.28 - 7.5 \times 0.04$	

Question 2

Find the value of each of the following and express each answer correct to the number of significant figures indicated in the brackets

(a) $0.028 \div 0.02 - 1.204$ [3]

(b) $0.68 \div 0.2 - 0.296$ [3]

(c) $0.3 \times 0.04 + 1.074 \div 60$ [2]

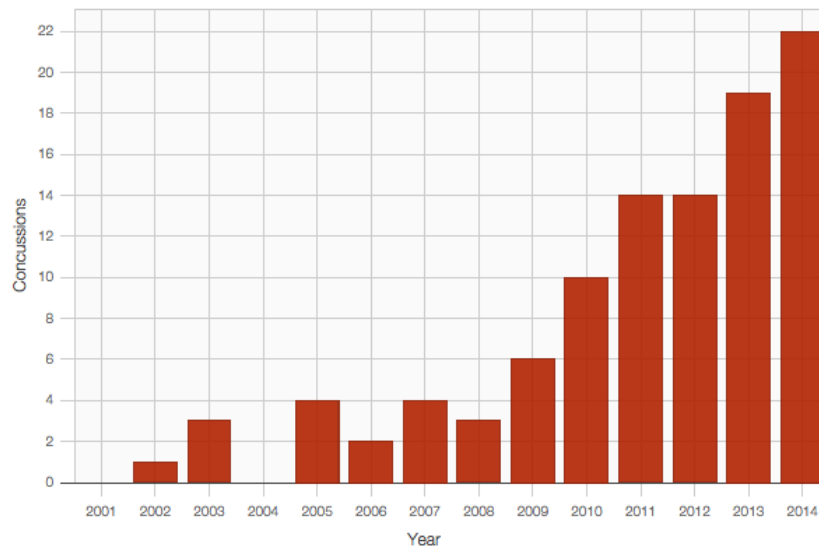
(d) $5.2 \times 0.3 - 0.345$ [3]



Question 3

The graph below shows the number of students scoring straight A's in SPM Exam. The data takes an average of 300 students a year. From the graph provided below,

Graf di bawah menunjukkan jumlah pelajar yang cemerlang dalam Ujian SPM. Data menunjukkan purata 300 pelajar setiap tahun. Daripada graf yang disediakan di bawah, cari



1. Find the average students achieve straights A's over the period of 14 years, **Cari purata pelajar yang cemerlang dalam tempoh 14 tahun**
2. Find the percentage of improvement from year 2012 to 2014 in terms of straits A's scorer. **Cari peratus murid dapat keputusan A's dari tahun 2012 sehingga 2014**

PLEASE PROVIDE ANSWER TO 3 SIGNIFICANT NUMBER / BERI JAWAPAN DALAM 3 ANGKA BERERTI

Ans



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Question 4

There are 457 students attending a motivational seminar in Singapore. The ticket price for the seminar is RM 155.70 per student. Find the total collection from the seminar ? (Give your answer in 4 Significant number)

Terdapat 457 pelajar menghadiri seminar motivasi di Singapura. Harga tiket untuk seminar itu ialah RM 155.70 bagi setiap pelajar. Cari jumlah wang tiket yang bagi 457 pelajar? Beri jawapan dalam 4 angka bererti

Ans



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Standard Form / Nombor Piawai

$$a \times 10^n$$

Write to the nearest Standard Form / Tulis jawapan dalam nombor piawai

Question	Answer		Question	Answer
1000			0.0023	
20000			0.0075	
240000			0.00065	
24785			0.00043	
235			0.88673	
679987			0.7483	
89584			0.0000002	

Question 1

Give the answer in standard form / **Beri jawapan dalam nombor piawai**

(a) $0.028 \div 0.02 - 1.204$

(b) $0.68 \div 0.2 - 0.296$

(c) $0.3 \times 0.04 + 1.074 \div 60$

(d) $5.2 \times 0.3 - 0.345$



Question 2

There are 27, 400,360 residents in Malaysia. 48% of the residents are male while the balance are female residents. Find the female residents in Malaysia? Give your answer in standard form.

Terdapat 27, 400,360 penduduk di Malaysia. 48% daripada penduduk adalah lelaki manakala bakinya ialah penduduk perempuan. Cari penduduk wanita di Malaysia? Berikan jawapan anda dalam bentuk piawai

Ans

Question 3

James went out for a long walk. He walked 17km and then sat down to take a rest. Then he walked $\frac{1}{8}$ of a 16km. How far did he walk altogether? Give the answer in standard form

James keluar berjalan lama. Dia berjalan 17km dan kemudian duduk untuk berehat. Kemudian dia berjalan $\frac{1}{8}$ dari 16km. Cari jumlah jarak yang dilalui? Beri jawapan dalam bentuk piawai

Ans

