

Forums New!

## **Quant Test 29**

1. A new flag is to be designed with six		thecolours yellow,	green,	blue and red.	Then,	the number	of ways this	s can
be done such that no two adjacent s	tripes have the same colour is							

- jm 12x81
- jm 16x192

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- to 20x125
- jm 24x216
- jm 26x125
- jn Skip this question

## Directions for Questions from 2 to 3:

$$f(\mathbf{x}) = \mathbf{x}$$
  $0 \le \mathbf{x} \le 1$   
= 1  $\mathbf{x} \ge 1$   
= 0 Otherwise

$$f_{\ell}(\mathbf{x}) = f_{\ell}(-\mathbf{x})$$
 for all  $\mathbf{x}$   
 $f_{\ell}(\mathbf{x}) = -f_{\ell}(\mathbf{x})$  for all  $\mathbf{x}$   
 $f_{\ell}(\mathbf{x}) = f_{\ell}(-\mathbf{x})$  for all  $\mathbf{x}$ 

- 2. How many of the following products are necessarily zero for every x: f 1(X) f 2(x), f 2 (X) f 3 (x), f 2 (x) f 4 (x)
  - jm 0
  - jm 1
  - m 2
  - jm 3
  - jm 4
  - in Skip this question
- 3. Which of the following is necessarily true?
  - f = f(x) = f(x) for all x
  - jn f 1(X) = -f 3 (-x) for all x
  - $f_2(-x) = f_4(x) \text{ for all } x$
  - $f_1(X) + f_3(x) = 0 \text{ for all } x$
  - $j_{10}$  f 1(X) f 3 (x) =0 for all x
  - in Skip this question
- 4. S1 and S2 are two sets of parallel lines. The number of lines in S1 is greater than the number of lines in S2. They intersect at 12 points. The number of parallelograms that S1 and S2 may form is
  - jn 12 or 6
  - Jm 8 or 4
  - jm 18
  - jm 18 or 15
  - jm 22
  - in Skip this question
- 5. If  $3^p = 4^q = 12^r$ , then (p + q) r is equal to
  - jm pq
  - jm qr

jm	pr
jm	pqr
jm	None of these
jn	Skip this question
	army code consists of 4 letters, the first two of which are numbers and the last two are alphabets. Find the total number of codes that can be nerated.
bo	84656
	60840
jho	56346
jhn	67600
jm	86756
jn	Skip this question
	en the air-conditioner is on, a typist can type X pages per hour. However, when the air-conditioner is off, she can type at 65 % of the earlier ciency (when the air-conditioner is on). How many hours would she take to type out 575 pages when the air-conditioner is off?
jm	375.4 X
jm	884.6 X <sup>-1</sup>
	36.5 X
	454.3 X <sup>-1</sup>
_	None of these
jn	Skip this question
in jung jung jung jung jung jung jung jun	e perimeter of an isosceles triangle is A cm and each of the two equal sides is B cm longer than the third unequal side. Which of the following is length of the equal sides?  (A - B)/3 A + A/B (A+B)/3 A/3 = B None of these Skip this question  an automated plant assembly line, the rate of rejection of components was 10% on July 1st and 6% on July 2nd. The combined rate of rejection the two days was 9%. The ratio of production volumes on July 1st and on July 2nd is  2 : 1 3 : 2 3 : 1
jho	2:5
jm	None of these
<b>j</b> n	Skip this question
p j j	nere are nine distinct numbers of which five numbers are positive and four numbers are negative. Three numbers are chosen at random and the roduct of these numbers is found. How many of these products are positive?  10 48 11 300 11 40 11 90 12 None of these 13 Skip this question
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