

1.  $(-3)^2 + (-2)^2$  is equal to
- (A) -13  
(B) -10  
(C) 13  
(D) 25
2. What percentage of 40 is 8?
- (A) 5%  
(B) 20%  
(C) 32%  
(D) 150%
3. If  $235 \times 48.7 = 11\,444.5$ , then  $23.5 \times 0.487 =$
- (A) 11.4445  
(B) 114.445  
(C) 1144.45  
(D) 11444.4
4. Using the distributive property,  $49 \times 17 + 49 \times 3 =$
- (A)  $49 \times 20$   
(B)  $49 + 20$   
(C)  $52 \times 66$   
(D)  $52 + 66$
5. A test was marked out of 80. A boy scored 60% of the marks on the test. How many marks did he score?
- (A) 20  
(B) 48  
(C) 60  
(D) 75
6. Dan sold 40 concert tickets in 5 days. Each day he sold 3 tickets MORE than the previous day. The number of tickets he sold on the third day is
- (A) 8  
(B) 9  
(C) 10  
(D) 11
7. Which of the following sets is defined by  $\{x \in \mathbb{Z} : -2 \leq x \leq 4\}$ ?
- (A)  $\{1, 2, 3, 4\}$   
(B)  $\{0, 1, 2, 3, 4\}$   
(C)  $\{-1, 0, 1, 2, 3\}$   
(D)  $\{-2, -1, 0, 1, 2, 3, 4\}$
8. If  $Q = \{a, b, c\}$ , how many subsets can be obtained from the set  $Q$ ?
- (A)  $2 + 3$   
(B)  $2 \times 3$   
(C)  $3^2$   
(D)  $2^3$
9. The set of positive integers is an example of
- (A) a finite set  
(B) an empty set  
(C) an infinite set  
(D) an improper set
10. If  $n(U) = 25$ ,  $n(A) = 14$ ,  $n(B) = 15$  and  $n(A \cap B) = 6$ , then  $n(A \cup B)$  is
- (A) 2  
(B) 19  
(C) 23  
(D) 29

# Mathematics Paper 2 November 2014 Foundation Answers

**SB Merriam**



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work the obtained stresses by using finite element analysis and the winkler batch method in different cross sections are compared to reduce the stress formed in sections by changing its design

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web condition a solid model of crane hook is prepared with the help of abaqus software real time pattern of stress

concentration in 3d model of crane hook is obtained the stress distribution pattern is verified for its correctness on an acrylic model of crane hook using shadow optical method caustic method setup

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web 7 stress in crane hook the crane hook is a curved bar subjected to direct stress bending stress 8 resultant stress at inner surface of crane hook 2 mm n mm 2 n mm 9 resultant stress at outer surface of crane hook the resultant stress at inner surface is additional of

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web jan 1 2021 real time pattern of stress concentration in 3d model of crane hook is obtained the stress distribution pattern is verified for its correctness on an acrylic model of crane hook using

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web stress on crane hook depends upon various geometric variables as well as material properties in this analysis the material properties of hook kept constant throughout the analysis and stress is to be reduced by varying different geometric parameters

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web jan 10 2022 the most stressed part of the crane hook is the curved inner surface this surface is considered critical in terms of strength the goal of this paper is to select a suitable crane hook

analysing crane hook of different cross sections and springer - Jan 30 2023

web analysis of these hooks to determine the areas with high stress i e failure points and those with low stresses these are potential points for material removal weight reduction and reduced costs

*finite element stress analysis of crane hook* - Sep 25 2022

web bending stresses combined with tensile stresses weakening of hook due to wear plastic deformation due to overloading and excessive thermal stresses are some of the other reasons for failure hence continuous use of crane hooks may increase the magnitude of these stresses and eventually result in failure of the hook

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web nov 12 2018 the stress analysis of a hook crane submitted to some vertical static force is a simple fem problem approached here using solidworks simulation software

