Machining and CNC Technology 4th edition Fitzpatrick Test Bank

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Machining and CNC Technology, 4e **(Fitzpatrick)**
Chapter 2 Math Skills

1) How is 3/4 inch expressed in decimal form?
A) 3.400 in.
B) .7500 in.
C) .1900 in.
D) 34 in.

Answer: B
Explanation: To convert fractions into decimals, divide the numerator by the denominator.
Section: 02.01.03
Accessibility: Keyboard Navigation

2) 1/8 in. converted to decimal form equals:
A) eighteen and five thousandths
B) one hundred twenty five
C) one hundred twenty five thousandths
D) eighteen hundredths

Answer: C
Explanation: 1 divided by 8 is .125. In 'machinist speak' that's one hundred twenty five thousandths of an inch.
Section: 02.01.01
Accessibility: Keyboard Navigation

3) You should multiply inches by which of the following to obtain millimeters?
A) .01
B) .03937
C) 10
D) 25.4

Answer: D
Explanation: Multiply inches by 25.4 to covert to millimeters.
Section: 02.01.04
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4) To a machinist, a "tenth" is equal to:
A) 1/10 of an inch
B) a number rounded 10 places
C) 10/1000 of an inch
D) 1/10,000 of an inch

Answer: D
Explanation: The base term for machinists is thousandths, so a 'tenth' is a tenth of a thousandths.
Section: 02.01.02
Accessibility: Keyboard Navigation

5) A machinist would refer to the dimension .21 as _____ of an inch.
A) twenty-one hundredths
B) two hundred and ten thousandths
C) twenty-one thousandths
D) twenty-one thousand

Answer: B
Explanation: A mathematician would say this is "twenty-one hundredths"; a machinist would say "two hundred and ten thousandths of an inch."
Section: 02.01.01
Accessibility: Keyboard Navigation

6) When rounding, you should follow the following rules except:
A) always round to the nearest whole number
B) don't round until the final result
C) use the memory key on your calculator
D) round to the nearest 0.0001 inch

Answer: A
Explanation: Machinists rarely use whole numbers. The other three points are good advice!
Section: 02.01.03
Accessibility: Keyboard Navigation

7) 30.0 mm is how many inches?
A) 25.4 in.
B) 762 in.
C) .03937 in.
D) 1.1811 in.

Answer: D
Explanation: Multiply millimeters by .03937 to obtain inches.
Section: 02.01.04
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8) On a drawing, the term R 3/8 ± 0.010 refers to which of the following?
A) a radius that is 3/8 plus .010 inches
B) radius 3/8th inch plus or minus 10 thousandths of an inch
C) a feature that is 3/8 of an inch round give or take .010%
D) adjust the 3/8th radius by .01 inches

Answer: B
Explanation: The radius can be 10 thousandths of an inch bigger, 10 thousandths smaller, or anywhere in-between and still be acceptable.
Section: 02.02.01
Accessibility: Keyboard Navigation

9) A machinist would round 1.26258 to the nearest *tenth* (.0001) of an inch as which of the following?
A) 1.362
B) 1.253
C) 1.2626
D) 1.2625

Answer: C
Explanation: Rounded to the nearest *tenth* of a thousandths (remember machinist speak), you would round the 5 up to 6 because the digit to the right is 5 or greater, in this case: 8
Section: 02.01.03
Accessibility: Keyboard Navigation

10) A circle's circumference is just over _____ times larger than its diameter.
A) two
B) four and a half
C) three
D) one and a half

Answer: C
Explanation: Circumference is the diameter times pi (3.1416)
Section: Chapter 2 review.
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