

Education and Training

Practicum in Education and Training

Multiple Choice Math Assessment Problems



All math problems address TEKS 130.145. Practicum in Education and Training.

(1) The student explores the teaching and training profession. The student is expected to:

(A) assess personal characteristics needed to work in the teaching and training profession.

Question 1. Alisa is about to start her practicum in a school setting where she must dress professionally. She wants to know how many outfits she can create from the clothes she currently has. If she has 8 shirts, 3 pairs of pants, and 4 skirts, how many possible outfits does she have?

- a. 15 outfits
- b. 32 outfits
- c. 56 outfits
- d. 96 outfits

(1) The student explores the teaching and training profession. The student is expected to:

- (A) assess personal characteristics needed to work in the teaching and training profession.

Question 2. Alisa is about to start her practicum in a school setting where she must dress professionally. She wants to know how many outfits she can create from the clothes she currently has. If she has 8 shirts, 3 pairs of pants, and 4 skirts, what is the probability of picking out a particular outfit which involves 1 shirt and 1 pair of pants?

- a. 12.5%
- b. 9%
- c. 5%
- d. 4%

(10) The student participates in field-based experiences in education or training. The student is expected to:

- (A) apply instructional strategies and concepts within a local educational or training facility; and
- (B) document, assess, and reflect on instructional experiences.

Question 3. Martin needs to get 200 hours of experience in a school setting this semester. The Big City ISD tells Martin that he can visit their school from 1:00 PM to 4:00 PM Monday through Thursday. At this rate how many weeks will it take to complete his 200 hours?

- a. 17 weeks
- b. 38 weeks
- c. 85 weeks
- d. 150 weeks

(9) The student continues development as a teaching or training professional. The student is expected to:

(A) identify strategies and resources for the professional development of educators or trainers.

Question 4. Ben makes \$3,200 a month as an adolescent counselor. He is court-ordered to give 28% of his paycheck each month as child support. If he keeps the same job for 18 years with no raise, how much will he have paid in child support over 18 years?

- a. \$ 10,752
 - b. \$ 16,128
 - c. \$ 87,258
 - d. \$193,536
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(2) The student understands the learner and learning process. The student is expected to:

(C) analyze personal behaviors and skills that facilitate the learning process.

Question 5. For proper child health, 30 minutes of active play every day is recommended. What percentage of the entire day is supposed to be spent in active play?

- a. 2%
- b. 3%
- c. 20%
- d. 30%

(7) The student understands the relationship between school and society. The student is expected to:

- (A) support learning through advocacy;
- (B) select school and community resources for professional growth; and
- (C) design activities to build support of family members, community members, and business and industry to promote learning.

Question 6. The City of Beaumont has a policy that it will build a new community and learning center in a neighborhood when 80% of that neighborhood's population is at or below a certain income level. If the neighborhood currently has 70% at or below that income level and continues toward 80% at a rate of 3% per year, in what month will they reach 80% if it is currently March?

- a. May
- b. June
- c. July
- d. August

(7) The student understands the relationship between school and society. The student is expected to:

- (A) support learning through advocacy;
- (B) select school and community resources for professional growth.

Question 7. The federal government will provide enough funding for one adolescent social worker per 1,000 students. If a certain school district has 76,385 students, what would be the actual student to social worker ratio?

- a. 1,000:1
- b. 1,005:1
- c. 1,076:1
- d. 76,385:1

(2) The student communicates effectively. The student is expected to:

- (A) assess the effectiveness of personal verbal, non-verbal, written, and electronic communication skills.

Question 8. The Blue Lake Counseling Center is hosting an event “Effective Instructional Practices to Accommodate Learning Differences” and needs x volunteers who can work 6 hour shifts to help their paid staff s who are all working from 9 AM to 5 PM. Which equation could be used to find the total hours h that are worked during the event?

- a. $h = x + s$
- b. $h = 6x + s$
- c. $h = 6x + 8s$
- d. $h = 8x + 6s$

(3) The student communicates effectively. The student is expected to:

- (B) communicate effectively in situations with educators and parents or guardians.

Question 9. City Center High School has a goal for 70% of parents to come to open house night this year. Mrs. Smith is the school social worker and calls every one of the school’s 859 students. If she was able to talk to 56% and they agreed to attend, how many more parents are needed to meet the goal?

- a. 120
- b. 279
- c. 481
- d. 601

(7) The student understands the relationship between school and society. The student is expected to:

- (C) design activities to build support of family members, community members, and business and industry to promote learning.

Question 10. Omar is trying to find a place for a homeless student and his family. He knows of an apartment complex that has a sliding scale for rent, r , based on the income of the family, f , divided by the number of people, p , in the family times 20%. Which equation could be used to find rent, r ?

- a. $r = \frac{p}{f}(.20)$
- b. $r = fp(.20)$
- c. $r = \frac{f}{20p}$
- d. $r = \frac{f}{p}(.20)$

Answer Key

- 1) C
- 2) D
- 3) A
- 4) D
- 5) A
- 6) C
- 7) B
- 8) C
- 9) A
- 10) D