

WORKBOOK ANSWER KEY

1
A

1 GETTING TO KNOW EACH OTHER

- 1 j 2 d 3 i 4 g 5 e 6 h 7 b 8 a
9 f 10 c

2 GRAMMAR

- a 1 Where are you from?
2 Who do you live with?
3 What type of TV programs do you like?
4 Did you come to this school last year?
5 Are you going to study at home tonight?
6 What are you thinking about?
7 Who did you talk to at the party?
8 Who do you usually send e-mails to?
b 1 Does your sister speak Korean?
2 Where do you live?
3 What music does your brother usually listen to?
4 Is he meeting them tomorrow?
5 Why are you doing your homework now?
6 Where did they go on vacation last year?
7 How often do you go to the movies?
8 Did you read the newspaper yesterday?

3 VOCABULARY

- 1 eleven, twelve 2 seventeen, eighteen
3 sixty, seventy 4 one hundred,
one hundred and one 5 third, fourth
6 twelfth, thirteenth 7 Saturday, Sunday
8 evening, night 9 January, February
10 (a) quarter after five, twenty after five

4 CLASSROOM LANGUAGE

- a 1 in pairs 2 Sit 3 Answer
4 Turn off 5 Don't
b 1 Have a good weekend.
2 Which page is it?
3 Sorry I'm late.
4 How do you spell your name?
5 Could you repeat that, please?
6 How do you pronounce that?
7 Can I have a copy, please?
8 What does "phone" mean?
c 1 circle 2 cross out 3 complete
4 choose 5 cover the text
6 copy the rhythm

5 PRONUNCIATION

- a /æ/ E, P /ɪ/ R, M /ʊ/ R, K /u/ O
b 1 alphabet 2 birthday 3 fourteen
4 forty 5 Wednesday 6 tonight
7 airport 8 brother 9 instrument
10 university

1
B

1 VOCABULARY

- a father - mother
uncle - aunt
nephew - niece
brother-in-law - sister-in-law
son - daughter
husband - wife
b talkative - quiet
shy - outgoing
generous - stingy
friendly - unfriendly
hardworking - lazy

2 GRAMMAR

- a 1 I don't like Hong Kong.
2 She doesn't work in the city.
3 He doesn't have red hair.
4 You don't look happy.
5 We don't usually go out for lunch.
6 They don't have lunch at one.
b 1 do 2 Does 3 Does 4 Does
5 do 6 Do
c 1 works 2 doesn't get 3 brings
4 does 5 doesn't get up 6 stays
7 has 8 don't have 9 doesn't like
10 get along 11 don't see 12 lives

3 PRONUNCIATION

- a /w/ watches
/r/ relaxes
/s/ leaves
/n/ runs
/r/ likes
/r/ cooks
b 1 talkative 2 family 3 unfriendly
4 generous 5 nephew 6 serious
7 quiet 8 daughter 9 funny

4 READING

- a 1 T 2 F 3 F 4 F 5 T 6 T
b 1 c 2 a 3 f 4 c 5 d 6 b

1
C

1 VOCABULARY

- Across: 2 brain 5 nose 7 eyes 8 lips
9 teeth
Down: 1 fingers 3 mouth 4 feet
6 hair 10 ear

2 PRONUNCIATION

- a /t/ teeth, knees
/æ/ back, hands
/a:/ arms, heart
/æ/ legs, head
/oʊ/ toes, nose

3 GRAMMAR

- a 1 is raining 2 are carrying
3 are playing 4 is watching
5 are sitting 6 aren't talking
7 isn't smiling 8 is she doing
9 is waiting 10 is thinking
11 'm getting
b 1 'm watching 2 travel 3 'm studying
4 takes 5 are ... going 6 need

4 VOCABULARY

- 1 in the middle
2 on the right
3 on the left
4 under
5 behind
6 next to

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Padhraic Smyth



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Table of Contents Answer Key Touchstone Workbook Level2

1. Understanding the eBook Answer Key Touchstone Workbook Level2
 - The Rise of Digital Reading Answer Key Touchstone Workbook Level2
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Touchstone Workbook Level2
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Key Touchstone Workbook Level2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Touchstone Workbook Level2
 - Personalized Recommendations

- Answer Key Touchstone Workbook Level2 User Reviews and Ratings
- Answer Key Touchstone Workbook Level2 and Bestseller Lists
- 5. Accessing Answer Key Touchstone Workbook Level2 Free and Paid eBooks
 - Answer Key Touchstone Workbook Level2 Public Domain eBooks
 - Answer Key Touchstone Workbook Level2 eBook Subscription Services
 - Answer Key Touchstone Workbook Level2 Budget-Friendly Options
- 6. Navigating Answer Key Touchstone Workbook Level2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key Touchstone Workbook Level2 Compatibility with Devices
 - Answer Key Touchstone Workbook Level2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key Touchstone Workbook Level2
 - Highlighting and Note-Taking Answer Key Touchstone Workbook Level2
 - Interactive Elements Answer Key Touchstone Workbook Level2
- 8. Staying Engaged with Answer Key Touchstone Workbook Level2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key Touchstone Workbook Level2
- 9. Balancing eBooks and Physical Books Answer Key Touchstone Workbook Level2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key Touchstone Workbook Level2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Key Touchstone Workbook Level2
 - Setting Reading Goals Answer Key Touchstone Workbook Level2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Key Touchstone Workbook Level2
 - Fact-Checking eBook Content of Answer Key Touchstone Workbook Level2

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web design dimensions of rack and pinion rack travel 5 rack shaft length 16 66 module 1 75 teeth on pinion 31 teeth on rack 32 mechanism which consists following parts rack

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web rack and pinion calculator the following online calculator computes the basic dimensions and tooth profiles of a meshing rack and pinion based on the pinion s module number of teeth pressure angle usually 20 and profile shift the rack s teeth are trapezoidal while the pinion has an involute tooth profile

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web 1 introduction the function of the steering system is to provide directional control to the vehicle for this a gearbox is used which converts rotational motion of steering wheel into translational motion of tie rod which in turn rotates the tires

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web jul 15 2018 to calculate the amount of travel that the pinion will have across the rack you need to look at the pinion gear as a circle the line of action on the pinion is the pitch diameter so the circumference at this point is the distance that the pinion will travel in one revolution the formula for circumference is

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web jan 2 2019 to determine the maximum rotational speed of the pinion simply divide the maximum linear speed of the application by the pinion circumference π diameter convert from millimeters to meters and convert from seconds linear speed m/s or ft/s to minutes rotational speed rpm n_p maximum rotational speed of pinion rpm

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web calculation examples the following are calculations for center distance a and tip and root clearance c when module m 2 pinion z_1 20 gear z_2 40 reference diameter of pinion d_1 20 2 40 reference diameter of gear d_2 40 2 80 center distance a 40 80 2 60 c 0 25 2 0 5

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web calculation process results a a m s_2 f_u m g μ m a f_u kn permissible feed force f_u tab f_u zul per f_u zul per f 4 05 kn kn condition f_u zul per f_u kn kn fulfilled rack and pinion drive calculation and selection v t b calculation example values given travelling operation mass to be moved m 820 kg

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web aug 7 2017 calculating the rack and pinion gear ration involves determining the amount of revolutions achieved by the pinion to produce the distance of the rack and is commonly used in vehicle and other types of engines and mechanical devices to calculate speed and power capacity

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web the minimum number of teeth required on pinion in order to avoid the interference were computed using following relation $z_2 \geq \frac{2}{\sin^2 \phi}$ eq 1 substituting values in above equation minimum number of teeth on pinion are 18 standard gear ratio for rack and pinion 1 5 therefore no of teeth on rack 18 1 5 27 3 3 selection of

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