Grade 8 Computing

Unit 8 · Organizing Your Digital Life

ANSWER KEY · FOR TEACHERS

Full marks 33

Give the marks for the points in the marking scheme; an answer in other words that says the same is right.

1 Key words

1. cache
2. permission
3. update
4. sync
5. 3-2-1 rule
6. recovery codes
7. vault
8. password manager

Each carries 0.5 mark. **K · 4**

2 Label the diagram

1. each week
2. Online
3. Laptop
4. Backup (a disk, or online)

Each carries 0.5 mark. **U · 2**

3 Multiple choice

i. **b.** School > Grade 8 (2083) > Science **U · 1**

A top folder by what it is (School), then the year, then the subject: three levels, and easy to follow next year. The others are vague, sorted by a single day, or far too deep.

ii. **b.** Space is freed, and the app may load a little slower for a while as it fetches things again. **U · 1**

A cache is spare copies the app can fetch again, so clearing it loses nothing of yours. Clearing the app's **data** is the one that logs you out and removes what the app keeps for you.

iii. **c.** Don't allow it, and uninstall the app. **A · 1**

Accessibility lets an app read the screen and tap for you: it is meant for people who can't see or touch the screen. Harmful apps ask for it to take over phones and bank apps. A "booster" has no need for it.

iv. **b.** a weekly copy of the phone's photos onto an external disk, keeping last month's copies too **U · 1**

A backup is kept apart from the original and keeps older copies, so a deletion or a scrambled file on the phone doesn't reach it. A synced folder copies deletions everywhere.

v. **b.** Whoever controls your email can reset the passwords of most of your other accounts. **U · 1**

"Forgot password?" sends the reset link or code to your email. An attacker with your email can take one account after another.

4 Names that sort themselves

a. **MARKING SCHEME** **A · 2**

- ✓ `['notes-v1.docx', 'notes-v10.docx', 'notes-v2.docx', 'notes-v9.docx']`: v10 comes straight after v1, because its 1 is compared with the 2 and the 9, and 1 is smallest.
- ✓ `['2083-12-1', '2083-5-9', '2083-6-14']`: 12 (Chaitra) comes first, because after `2083-` its 1 is smaller than 5 and 6.

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b. MARKING SCHEME A · 3

- ✓ i. `2083-05-03-science-notes-v02.docx`
- ✓ ii. `2083-05-30-class-teej-program.jpg`
- ✓ iii. `2083-06-12-nepali-essay-constitution-v04.docx` (any clear words for what it is, with the date year first and two-digit numbers).

5 True or false

U · 3

i. ✓ **True**
ii. ✗ **False:** Clearing the data logs you out and can lose chats or progress that weren't backed up.
iii. ✓ **True**
iv. ✗ **False:** Update apps only from the official app store; an APK in a chat may be malware.
v. ✓ **True**
vi. ✗ **False:** Sync copies mistakes and deletions everywhere; a backup is kept apart, with older copies.

Each carries 0.5 mark.

6 Calculation

ANSWER A · 3

She needs 6 − 1.5 = **4.5 GB** more.
For example, clearing the cache and deleting the forwarded videos: 2.6 + 3.1 = 5.7 GB, so 1.5 + 5.7 = **7.2 GB** free, which is enough.
(Also enough: the videos and the games, 3.1 + 2.4 = 5.5 GB, giving 7.0 GB; or the cache and the games, 2.6 + 2.4 = 5.0 GB, giving 6.5 GB.)

MARKING SCHEME

- ✓ 6 − 1.5 = 4.5 GB more needed.
- ✓ Two safe steps that add up to at least 4.5 GB (any pair works).
- ✓ The free space then worked out: 7.2 GB, 7.0 GB or 6.5 GB.

7 Short answers

a. MARKING SCHEME A · 3

- ✓ No: only two copies, and the phone and the pen drive in his bag are usually together, so one theft or fall can take both.
- ✓ A third copy, such as the phone's automatic online backup on Wi-Fi, away from home.
- ✓ Another kind of storage kept at home, not in his bag (the family computer or an external disk), and the copies checked now and then.

b. MARKING SCHEME U · 2

- ✓ Other ways to prove the account is yours: a recovery email, a recovery phone number, and recovery codes on paper.
- ✓ Once you are locked out it is too late: the account can only send codes to the places it already knows.

8 Long answer

ANSWER

1. Call her number from another phone, in case it was dropped nearby.
2. From another device, use "find my device" to **lock** the phone with a message (and erase it if it won't come back).
3. Call her phone company on its official number to **block the SIM** and get a new one with the same number.
4. Call the **wallet company and her bank** to block the apps.

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5. **Change her email password** first, then other important passwords, and sign the stolen phone out of her accounts.
6. **Report the theft to the police** with the phone's IMEI number.
7. Set up a new phone from her **backup.**

A · 4

MARKING SCHEME

- ✓ From another phone: call her number, then use "find my device" to lock the phone with a message (erase it if it won't come back).
- ✓ Call the phone company on its official number to block the SIM (and get a new one with the same number).
- ✓ Call the wallet company and her bank to block the apps; change her email password first, then the others, and sign the phone out of her accounts.
- ✓ Report the theft to the police with the phone's IMEI number, and set up a new phone from her backup.

9 Think

ANSWER

HA · 2

One copy away: the copy at Galyn Susman's home was apart from the studio, so the mistake on the studio's computers couldn't reach it; without it, the film was lost. **Check that the copies work:** the studio had backups, but nobody had checked them, and when they were needed they didn't work. A backup nobody tests may not be there when it is needed.

MARKING SCHEME

- ✓ One copy away from the original place: the mistake at the studio couldn't reach the copy at home.
- ✓ Check that the copies work: the studio's backups had quietly stopped working, and nobody knew until too late.

10 Activity: Three apps' permissions

(not marked)

WHAT STUDENTS SHOULD FIND

Most apps have the permissions their job needs, but nearly every phone has a few that ask for more: a game with the location or contacts, a photo editor with the microphone, a flashlight or "cleaner" app with almost everything. Location "all the time" is often more than needed: "only while using the app" is enough for most. Any app with the **accessibility** permission that isn't an aid for people who can't see or touch the screen is worth removing.

Marks by level	Knowledge	Understanding	Application	Higher ability	**Total**
Marks	4	11	16	2	**33**

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